

THE IGNITE INITIATIVE

**A Response to the Human Resource Needs of
Local Industry along the I-64 Corridor.**

2016

Amtcor Flexibles Americas Shelbyville
Bekaert Corporation
F. B. Purnell Sausage Company, Inc.
Katayama American Company, Inc.
Logan's Healthcare
Logan's Uniform Rental, Inc.
Macro Plastics
Martinrea Heavy Stamping, Inc.
Nifco America Corp.
Blaze Products Corp.
Ohio Valley Aluminum Company, LLC
Shelby County Chamber of Commerce
Spencer County Public Schools

Pegasus Industries Packaging
Process Machinery
Roll Forming Corporation
Stelised, Inc,
Superb IPC
Revere Packaging
Shelby County Fiscal Court
City of Shelbyville
City of Simpsonville
Jefferson Community and Technical College
Shelby County Industrial and Development Foundation
Shelby County Associated Industries
Eminence Independent Schools
Shelby County Public Schools

The IGNITE Initiative Table of Contents

Attachment A

A.1	Specific Sectors and Career Pathways of The IGNITE Initiative	2
A.2	Why the Sector and Pathways were Selected	10
	Why Existing Programs are Not Working	

Attachment B

B.1.a	Shelby County Unemployment Rate in 30-mile Radius September 2016	14
	Labor Force Participation Rate Ages 16 and Above	14
B.1.b	Population Ages 18-64 in Shelby County & 30-mile Radius	14
B.1.c	Current Job Openings and Forecast	14
B.1.d	Total Projected Juniors and Seniors Attaining Post-Secondary Credit, Credentials, Certifications, or Internships inside the Sector	15
B.1.e	Projected Enrollment and Credentials Awarded Annually	15
B.1.f	Expected Entry-level Wages for Graduates of the Training	15
B.1.g	Employment Numbers and Trends for Advanced Manufacturing 30-Mile	16

Attachment C

C.1	Letters of Support & Statement of Roles	17
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Attachment D

D.1	Detailed Line Item of Project Costs w Supporting Documentation	70
D.2	Breakdown of Total Cash Costs	
	Shelby County Area Technology Center Equipment	72
	Shelby County Area Technology Center Furnishings	74
	Shelby County Area Technology Center Floor Plan, Rendering & BG-1	75
	Workforce Development Coordinator	81
	JCTC Rendering	82
	JCTC Floor Plan	84
	JCTC Project Estimates	85
	Eminence Independent	88
D.3	Proposed Schedule of Expenditures	89

Attachment E

E.1	Description of Training and Education at the Facilities	90
E.1.a	Total Number of Participants that Can Be Served at Any One Time	90

E.1.b	Number of Participants that Will Complete Training Annually	90
E.1.c	Number of Participants Currently Served and Number Projected	90
E.1.d	Description of Paths	90
E.1.e	List of Courses, Training, Certifications, Credentials, Degrees	92
E.1.f	Transferable and Portable Credits and Credentials	107
E.1.g	Secondary Students Dual Credit	107
E.1.h	Estimated Cost for Participants	107
E.1.i	Hours of Operation	112
Attachment F		
F.1	Marketing and Expenses by Year	113
F.2	Promotion by Counselors	113
F.3	Involvement of Student Organizations	113
Attachment G		
G.1	5 Year Financial Plan	115
G.2	Recruit and Credential Instructors	116
G.3	Responsibility for Project Facility Maintenance	117
G.4	Project Timeline	117
G.5	Demonstrate Experience and Success for Training and Construction	119
Attachment H		
H.1	The Need for New Construction	120
Attachment I		
I.1.a-h	Data to be Collected and Reported	121
Reference		
	JobsEQ Report for 30-Mile Radius of Shelby County, KY	122

A.1	Specific Sectors and Career Pathways of The IGNITE Initiative
	Sector: Advanced Manufacturing
	Pathways: Computerized Manufacturing and Machining

Welding Technology
Industrial Maintenance Technology
Diesel Technology (At present, secondary only)

Training Requested by Regional Industry

Industry Sector Advanced Manufacturing	Training requested by regional industry
Lean Manufacturing	Welding Technology
Lean Office Mapping	Diesel Technology
Failure Mode and Effects Analysis	Industrial Maintenance Technician
OSHA Training	Electronics Technician
CPR & First Aid	Blueprint Reading & GDT
Problem Solving	Microsoft Office Suite
Leadership	Management
Team Building	Supervisor

*Shelby County Associated Industries, Shelby County Public Schools, Eminence Independent Schools and Jefferson Community and Technical College will coordinate efforts to meet these requests.

Training Offered Through IGNITE in Response to Industry Need

Industry Sector Advanced Manufacturing	Career Pathway
Computerized Manufacturing and Machining	Exploratory Machining 1 Certificate
	Exploratory Machining 2 Certificate
	Machine Tool Operator 1 Certificate
	Machine tool Operator 2 Certificate
	CNC Operator Certificate
	Tool and Die Apprentice
	CNC Machinist Diploma
	Machinist Diploma
	Associate in Applied Science General Occupational Technical Studies
	GOTS Degree transfers to University of Louisville or Apprenticeship Program
Organizational Leadership and Development	University of Louisville –Bachelor of Science Organizational Leadership

Industry Sector Advanced Manufacturing	Career Pathway
<p>Welding Technology*</p> <p>*Welding Technology will be offered as space in the Shelby County ATC is constructed and made available for use by the College. Career pathways will be driven by the demand by local business and industry.</p>	Welder Helper Certificate
	Gas Welder Certificate
	Arc Cutter Certificate
	Tack Welder Certificate
	Production Line Welder Certificate
	Arc Welder Certificate
	Pipeline Welder Certificate
	AWS National Skills Standards Level 1
	Shielded Metal Arc Welding Certificate
	Gas Metal Arc Welding Certificate
	Gas Tungsten Arc Welding Certificate
	Combination Welding Diploma
	Associated in Applied Science General Occupational Technical Studies (GOTS)
	GOTS Degree transfers to University of Louisville
Organizational Leadership and Development	University of Louisville –Bachelor of Science Organizational Leadership

Industry Sector Advanced Manufacturing	Career Pathway
Engineering and Electronics Technology	Electronics Tester Certificate
	Electronics Technician Certificate
	Maintenance Technician Certificate
	Computer Maintenance Technician Certificate
	Mechanical Technician Certificate
	CAD Technician Certificate
	Industrial Electronics Technician I Certificate
	Industrial Electronics Technician II Certificate
	Automation Technician Certificate
	Robotics and Automation Technician Certificate
	Communications Technician Certificate
	Associate Degree Options: <ul style="list-style-type: none"> • Electronics • Computer Maintenance • Industrial Option • Mechanical Option • Computer Aided Design • Robotics and Automation • Apprenticeship
Technology Management	AAS Degree Transfers to: Western Kentucky University <ul style="list-style-type: none"> • B.S. Technology Management • M.S. Technology Management
Organizational Leadership and Development	University of Louisville –Bachelor of Science Organizational Leadership

Industry Sector Advanced Manufacturing	Career Pathway
<p>Industrial Maintenance Technology</p> <p>*According the industry leadership, it is commonly shared that the Industrial Maintenance Program at JCTC-Shelby provides the best training in the region. The program operates at capacity and continually turns companies and individuals away due to a lack of space. IGNITE will change this.</p>	Industrial Maintenance Mechanic Level 1 Certificate
	Industrial Maintenance Mechanic Level II Certificate
	Electro-Hydraulic Technician Certificate
	Industrial Maintenance Robotics Technician Certificate
	Industrial maintenance Electrical Mechanic Technician Certificate
	Industrial Maintenance Machinists Mechanic Technician Certificate
	Industrial Maintenance Technician Diploma
	Associate In Applied Science Industrial Maintenance Technology
<p><i>(Engineering and Electronics Technology emphasis embedded in IMT program)</i></p>	Electronics Tester Certificate
	Electronics Technician Certificate
	Maintenance Technician Certificate
	Computer Maintenance Technician Certificate
	Mechanical Technician Certificate
	CAD Technician Certificate
	Industrial Electronics Technician I Certificate
	Industrial Electronics Technician II Certificate
	Automation Technician Certificate
	Robotics and Automation Technician Certificate
	Communications Technician Certificate
	<p>Associate Degree Options:</p> <ul style="list-style-type: none"> ● Electronics ● Computer Maintenance ● Industrial Option ● Mechanical Option ● Computer Aided Design ● Robotics and Automation ● Apprenticeship

Technology Management	AAS Degree Transfers to: Western Kentucky University <ul style="list-style-type: none"> • B.S. Technology Management M.S. Technology Management
Organizational Leadership and Development	University of Louisville –Bachelor of Science Organizational Leadership

Industry Sector Advanced Manufacturing	Career Pathway
Diesel Technology* *For the purposes of this application, Diesel Technology is only represented as a secondary pathway that allows students to receive credentials toward the following pathways. The high schools will pursue a relationship with a post-secondary institution to create dual credit opportunities for our students.	Front End Mechanic
	Entry Level Diesel Technician
	Diesel Mechanic
	Customer Service Representative
	Maintenance Mechanic
	Service Advisor
	Maintenance Supervisor
	Diesel Sales Representative
	Associated in Applied Science General Occupational Technical Studies (GOTS)
Organizational Leadership and Development	Shelby County Public Schools KY Office of Career and Technical Education These are not pathways as compared to all other listings in these tables.

A.2 Why the Sector and Pathways were Selected

The Advanced Manufacturing industry sector was chosen based on the needs of local business and industry. Business and industry leaders have met with community and education leaders in the region.

The IGNITE Initiative recognizes the need for a highly skilled manufacturing workforce in the surrounding region. The importance of Advanced Manufacturing in both economic development and educational advancement throughout our community is clear. Business, government and education have all come together to collaboratively improve training opportunities for our current and future workforce in the leading industry sector in our area, Advanced Manufacturing.

Through expanded and improved facilities at the Shelby County Area Technology Center, Eminence Independent Schools and Jefferson Community and Technical College-Shelby County Campus; our region will be better equipped to provide up-to-date, applicable and appropriate training to secondary, post-secondary and adult learners from Shelby County and the surrounding counties to help meet the needs of our continually growing manufacturing base along the I-64 corridor.

A.2 Why Existing Programs are Not Working

With over seventy-seven industries in Shelby County alone, the need for more skilled workers in the region is visible. According to [recent information released by The Kentucky Cabinet for Economic Development](#) (Attachment 1), Shelby County is the second largest industry base in the region. While the region boasts a large industry base, the variety of industry creates a need for flexible training.

Unlike other communities, Shelby County does not have one or two large manufacturers that have defined a certified path toward employment and advancement. Instead, our manufacturers are adaptable to meet the ever-changing needs of their customers. This makes defining a certified pathway for prospective employees challenging. Yet, amid this rapidly changing environment, all of the manufacturers in this partnership agree on the need for a highly skilled workforce comprised of hard-working employees who come to work on time, are drug-free and work well in teams.

Why IGNITE Must Occur Now

Recently, *The Lane Report* highlighted research by the Kentucky State Data Center and the University of Louisville on [population growth in Kentucky](#) (Attachment 2). The data projects Shelby County, Kentucky will grow 51% by 2040. That is projected the 3rd fastest growing county in the state behind Oldham County and Scott County, which are both within a 30-mile radius of Shelby County, KY. All counties within the 30-mile radius of Shelby County project an increase in population by 2040. Regionally speaking, the area is primed to host industry growth and associated training growth over the next twenty years.

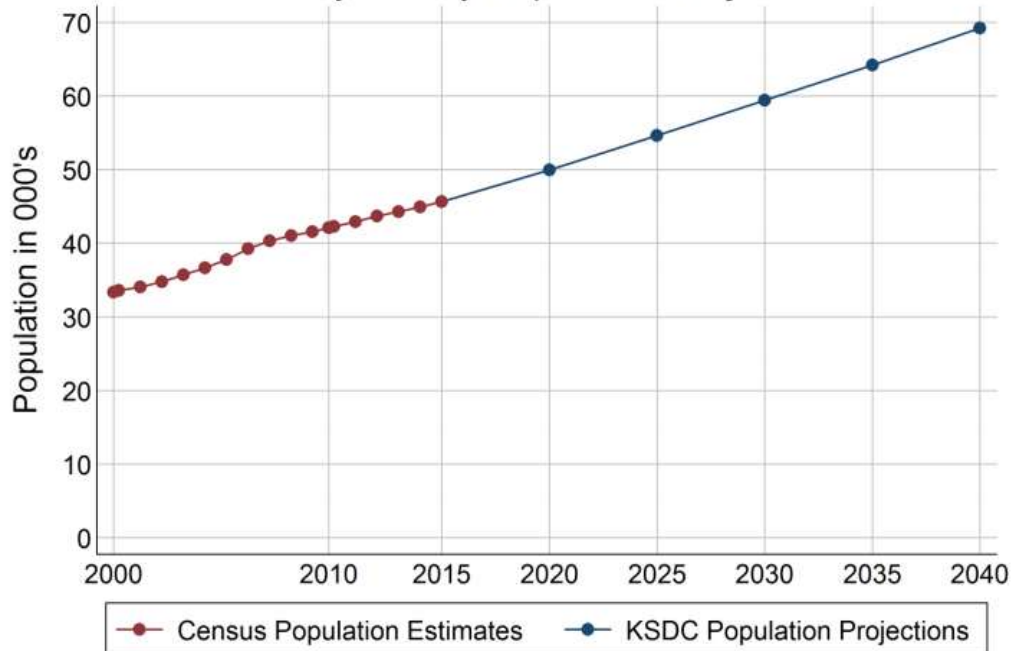
Projected Change in Total Population 2015 - 2040



Source: Kentucky State Data Center
Projections of Population and Households, v2016

Projected Change in Total Population: 2015-2040								
	Largest		Largest		Largest		Largest	
Rank	Numeric Gain		Percentage Gain		Numeric Loss		Percentage Loss	
1	Jefferson	111,836	Scott	86.5%	Pike	-13,495	Fulton	-36.9%
2	Fayette	105,325	Oldham	52.8%	Floyd	-9,494	Leslie	-29.6%
3	Boone	63,381	Shelby	51.7%	Harlan	-7,379	Breathitt	-29.6%
4	Warren	60,854	Boone	49.6%	Bell	-5,963	Knott	-29.5%
5	Scott	45,325	Warren	49.5%	Letcher	-5,578	Hickman	-28.3%
6	Oldham	34,249	Spencer	45.7%	Perry	-5,376	Lee	-27.5%
7	Hardin	28,462	Jessamine	40.3%	Hopkins	-5,332	Martin	-26.9%
8	Shelby	23,607	Fayette	33.5%	Clay	-5,258	Harlan	-26.6%
9	Jessamine	20,956	Montgomery	32.5%	Greenup	-4,661	Floyd	-25.1%
10	Bullitt	19,543	Hardin	26.7%	Knott	-4,633	Clay	-25.0%

Shelby County Population Projections



Source: *Projections of Populations and Households 2015-2040*, Ky State Data Center at University of Louisville, Matt Ruther, PhD, Tom Sawyer, Sarah Ehresman pp. 228-229

High schools participating in IGNITE are graduating students at a rate higher than the state and national average. While our schools' college and career readiness numbers are high according to Kentucky's Career Readiness Assessment System, the students entering the workforce have not yet met the readiness expectation of the region's employers.

IGNITE has narrowed our improvement focus to these three areas:

- **Modernize the Facilities**
- **Modernize the Training**
- **Promote the Path**

Modernize the Facilities:

Based on student interest survey data, the existing facility at the Shelby County Area Technology Center does not promote or entice student interest. Despite offering pathways that feed directly to employment opportunities, students still see the Area Technology Center facility as archaic and parents still think manufacturing does not require high skills or provide high wages. The facility is too similar to the old vocational school that their parents and grandparents attended when they were in high school.

The JCTC-Shelby campus lacks the flexible space necessary to adapt to the variety of training needed for Shelby County employers. For current employees in our community, the [Shelby County Associated Industries Training Consortium](#) (video) attempts to provide training as needed. Industries often attempt to train on the worksite, disrupting production for the sake of training. The instructors currently have no other place to go. Simply put, the training facilities do not match that of today's workplace, nor do they inspire possibility and awareness for our region. The IGNITE Initiative will change this.

Modernize the Training:

At the Shelby County Area Technology Center and JCTC-Shelby Campus, all training equipment is not current. Advancements in Lean Manufacturing and the growth of Automated Manufacturing in our region have surpassed what the educational training that is provided. Emerging and incumbent employees simply do not see the facility and equipment that allows them to envision their role in the workplace. Additionally, the hours of operation for the training do not maximize participation.

While our middle schools boast programs like Project Lead the Way that promote Engineering, Math and Science, our current recruitment approach does not ensure adequate enrollment to meet the projected need of manufacturers. The inclusion of a JCTC dual credit course called Workplace Principles (WPP 200) in the freshman year formally introduces students to the soft skills necessary for success. Career and Technical Education instructors will formatively assess students on these soft skills, as well as technical skills, during grades 10 and 11. During the senior year internship, seniors will demonstrate these soft skill and technical competencies to the internship coordinator and to their employer at their worksite. The IGNITE Initiative will create a physical experience for students in our region to see how exciting and vibrant the workplace has become in the fields of:

- Industrial Maintenance Technology
- Computerized Machining and Manufacturing
- Welding Technology
- Diesel Technology

Through this plan, industry, local government leaders and education will partner to prepare a world-class workforce with credentials to document industry recognized, transferrable skills.

Promote The Path:

While our region includes some large employers that have defined a certified path toward employment and advancement, we aspire to prepare employees for the vast opportunities both regionally and globally. IGNITE will define a pathway for educators, emerging employees and current employees that provides credentials recognized for employment and advancement in regional industry. The path must be available, attractive and attainable. The IGNITE Initiative will propel high school students and adult learners into this sector.

Through The IGNITE Initiative, our partners will build a skilled workforce by putting current Advanced Manufacturing equipment in the hands of prospective and current employees who control the path, pace, and time of their training. Our desire is the creation of a seamless pathway that “initializes” both high school students and adult learners toward advancement in the workplace. Along the way, the employee accumulates stackable credentials toward an Associate’s Degree from JCTC. In our region, industry partners have agreed to assist in the provision of instructors and co-teachers as well as provide tuition reimbursement for employees who successfully complete the coursework recommended for advancement in their programs.

Attachment B

The JobsEQ Report referenced in Attachment B was provided by the Kentucky Center for Economic Development.

B.1.a Unemployment Rate in Shelby County & 30-mile Radius through September 2016

Shelby County Unemployment		30-mile Radius of Shelby County Unemployment	
3.4%	903	4.2%	35,681

Source: *Jobs EQ Economic Overview 30-Mile Radius of Shelby County p. 5*

Labor Force Participation Rate Ages 16 and Above

Shelby County LFPR		30-mile Radius of Shelby County LFPR	
64.7%	22,047	65.2%	703,567

Source: *Jobs EQ Economic Overview 30-Mile Radius of Shelby County p. 3*

B.1.b Population Ages 18-64 in Shelby County & 30-mile Radius

Age Range	Shelby County	30-mile Radius of Shelby County
18 to 24	3,321	116,178
25 to 34	5,381	178,821
35 to 44	6,075	181,925
45 to 54	6,372	205,138
55 to 64	5,422	167,475
Total	26,571	849,537

Source: *Jobs EQ Economic Overview 30-Mile Radius of Shelby County p. 3*

B.1.c Current Job Openings and Forecasts for the Future

According to the Jobs EQ report, there are 17,993 current online job advertisements associated with Advanced Manufacturing within a 30-mile range of Shelby County, Kentucky. In the areas of Production, Installation, Maintenance, Repair, Construction and Management combined, the report shows 6,060 jobs advertised online in November 2016. In two years, JobEQ projects 3,014 additional manufacturing jobs available for a total of 9,074. Over the next 10 years, JobsEQ reports the replacement demand in these same areas totaling 22,286.

Source: *Jobs EQ Economic Overview 30-Mile Radius of Shelby County p. 9*

B.1.d Total Projected Juniors and Seniors Attaining Post-Secondary Credit, Credentials, Certifications, or Internships inside the Sector

Projected Number of Juniors and Seniors at Project Completion

Post-Secondary Credit = **136**

Credentials = **68**

Certificates = **68**

Work Based Learning Opportunities = **68**

Certified Internships = **10**

B.1.e Current and Projected Enrollment and Credentials Awarded Annually

Current Enrollment JCTC Shelby County Campus

Advanced Manufacturing enrollment 2015-2016 = **319***

Credentials Awarded 2015-2016 = **57**

***this is a duplicated headcount as students are enrolled in several courses each semester**

Projected Numbers at Project Completion

Projected enrollment Advanced Manufacturing JCTC Shelby County Campus **364**

Projected enrollment Advanced Manufacturing JCTC Shelby County Campus High School Students = **60**

Estimated High School Enrollment at project completion = **80**

Projected Credentials Awarded Annually = **68**

B.1.f Expected Entry-level Wages for Graduates of the Training

Industry Sector	Jobs	Entry Level Wages per hour
Advanced Manufacturing		
Industrial Maintenance		
Computerized Machining and	Mechanical Drafters	\$21.56
Manufacturing	Industrial Engineering Technicians	\$23.57
Engineering and Electrical Technology	Electrical & Electronics	\$27.65
	Engineering Technicians	
	Electro-Mechanical Technicians	\$20.73
	Electrical and Electronics	\$24.97
	Repairers, Commercial and	
	Industrial Equipment	
Welding Technology	Welders	\$17.36
Diesel Technology	Diesel Mechanics	\$16.81

Source: WIB Kentuckiana Works

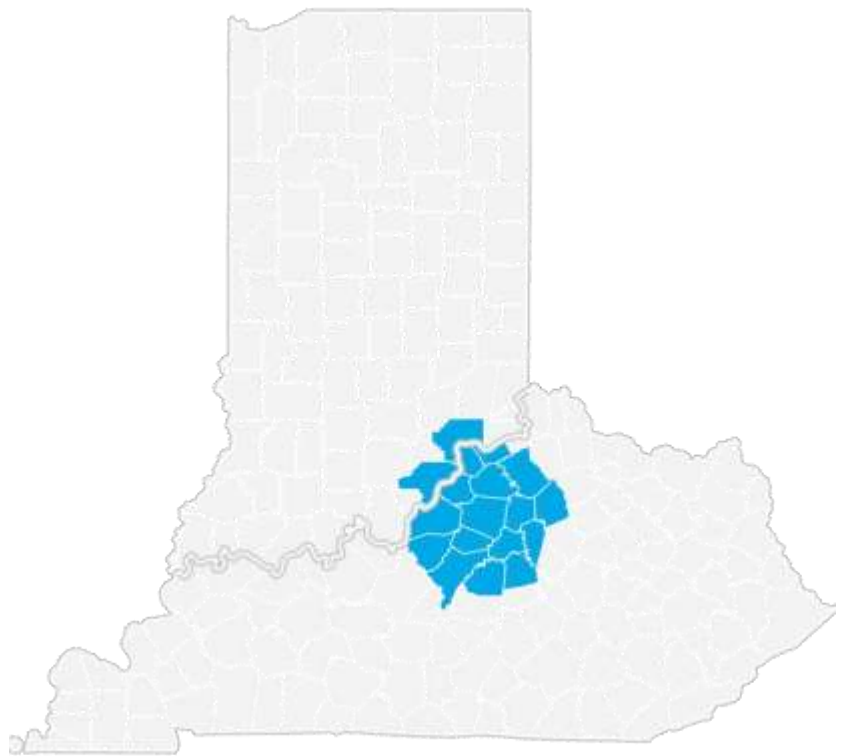
B.1.g Employment Numbers and Trends for Advanced Manufacturing 30-mile

Over the last five years, according to the JobsEQ, manufacturing employment in the 30-mile radius of Shelby County, KY has increased by 21,374 jobs. This brings the total number of jobs in manufacturing to a total of 98,114. In this region, the Average Annual Percentage Change from 2011-2016 was 5.0%. While this is impressive for the region, that same percentage for Shelby County, Kentucky was 6.3%. Over the next 10 years, the total approximate employee replacement demand in manufacturing is 22,286. We must IGNITE Advanced Manufacturing Training in Shelby County, to keep these companies in our state.

Source: Jobs EQ Economic Overview 30-Mile Radius of Shelby County p. 8

The proximity of Shelby County, KY is a key component of the impact of The IGNITE Initiative. Sitting on the I-64 corridor between Lexington, KY and Louisville, KY the 30-mile radius includes the following counties in Kentucky and Indiana:

- Clark County, Indiana
- Jefferson County, Indiana
- Anderson County, Kentucky
- Bullitt County, Kentucky
- Carroll County, Kentucky
- Franklin County, Kentucky
- Henry County, Kentucky
- Jefferson County, Kentucky
- Mercer County, Kentucky
- Nelson County, Kentucky
- Oldham County, Kentucky
- Owen County, Kentucky
- Scott County, Kentucky
- Shelby County, Kentucky
- Spencer County, Kentucky
- Trimble County, Kentucky
- Washington County, Kentucky
- Woodford County, Kentucky



Attachment C



December 2, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **Shelby County Associated Industries** confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant. Shelby County has more industry than any other county surrounding the Louisville Major Metropolitan Area and Jefferson County. Shelby County Associated Industries represents 34 manufacturers that supply the automotive, aerospace, agriculture, medical, food & beverage, warehousing, and service industries which employ advanced manufacturing processes. The Association will support Shelby County's *Ignite Initiative* by providing a continuous forum promoting its programs via information disbursement, needs assessments, training consortium, resource coordination, and integrated cooperation of area manufacturers.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the-art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

The Shelby County Associated Industries recognizes the *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

We look forward to the future impact of this project.

Sincerely,

Ray Leathers
Shelby County Associated Industries



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Shelby County Associated Industries

Role: Industry

We will support The IGNITE Initiative by:

- Participate in the planning and design of the Ignite Initiative
- Promotion of Ignite Initiative with our membership and the business community
- Provide funding for the Workforce Development Coordinator position
- Coordination of training and funding through Shelby County Associated Industries Training Consortium
- Host and/or sponsor community awareness and education events that highlight manufacturing
- Encourage members to register apprenticeships with the state
- Serve on Oversight Committee for Workforce Development Coordinator
- Provide input for training and curriculum for career and technical classes and programs
- Survey local industry to assess workforce and training needs to share with education providers
- Promote and encourage members to support and participate in advanced manufacturing programs within the schools – advisory committees, student organizations, internships, etc.
- Serve as liaison between manufacturing and business and education

December 1, 2016



Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **Shelby County Industrial & Development Foundation, Inc.** confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.


We support Shelby County's *Ignite Initiative* by committing our time and expertise, economic development resources, staff assistance, office for the Workforce Development Coordinator and any additional support our office could lend to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Bobby G. Hudson
President/CEO


Libby Adams
Executive Director

316 Main Street • P.O. Box 335 • Shelbyville, Kentucky 40065 • Phone: (502) 633-5068 • Fax: (502) 633-7501



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Shelby County Industrial & Development Foundation, Inc.

Role: Economic Development

We will support The IGNITE Initiative by:

- Support in kind funding for Workforce Development Coordinator position
- Serve on Evaluation Board for Workforce Development Coordinator position
- Serve on the Local Planning Committee for the Area Technology Center
- Serve on the Local Planning Committee for JCTC Shelby Campus
- Coordinate Industry Tour site visits for student groups
- Coordinate Industry Tour site visits for teachers, counselors, school staff, etc.
- Participate in the design and planning of the IGNITE Initiative
- Promote the IGNITE Initiative to students, parents, community, etc.

Signature:

Title: Executive Director



316 Main Street • P.O. Box 335 • Shelbyville, KY 40066 • 502.633.1636

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The Shelby County Chamber of Commerce confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The Shelby County KCTS campus and the Shelby County Area Technology Center enjoy a central location on the I64 corridor, allowing them to contribute significantly to the Bluegrass Economic Advancement Movement. The Shelby County Industrial and Development Foundation demonstrated its long-term commitment to manufacturing training in acquiring land for a KCTCS campus situated in close proximity to the Shelby County Area Technology Center with plenty of acreage for future expansion. The proximity of the two schools to each other allows for a unique secondary/postsecondary partnership.

The existing manufacturing programs at the two schools have a proven, successful track record. The faculty are highly qualified with decades of prior industry experience. They have developed a web of industry relationships and are training or have trained employees of industries in Anderson, Bullitt, Franklin, Henry, Jefferson, Shelby, and Spencer Counties. The KCTCS campus manufacturing programs have a high student success rate, much higher than what is typical for KCTCS programs. Employer feedback also indicates a high level of satisfaction.

Given these factors, expanding manufacturing training capabilities in Shelby County would be a worthwhile investment of state training funds. We support Shelby County's *Ignite Initiative* by committing to provide input for training and curriculum for career and technical classes, participate in the design and planning of the IGNITE Initiative, work collaboratively with High Schools to provide problem based learning opportunities, serve on the Local Planning Committee for the Area Technology Center, serve on the Local Planning Committee for JCTC Shelby Campus, and serve on Advisory Council for high school career pathways

Ignite Initiative will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

John Wieland
Executive Director

www.ShelbyCountyKyChamber.com



316 Main Street ♦ P.O. Box 335 ♦ Shelbyville, KY 40066 ♦ 502.633.1636

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Shelby County Chamber of Commerce

Role: Community and Economic Development

We will support The IGNITE Initiative by:

- Providing a Work Ethic Certification program to all high school students in Shelby County
- Delivering a work ethic training course in partnership with Junior Achievement
- Providing volunteers from the Shelby County Chamber of Commerce membership to facilitate the work ethic training course
- Sponsoring scholarships for students who have completed work ethic certification
- Promoting work based learning and the IGNITE Initiative to the Chamber of Commerce membership through our website and social media
- Serving on the community advisory committees of the Shelby County Area Technology Center and Jefferson Community and Technical College--Shelby County Campus

Signature:

Title: Executive Director

www.ShelbyCountyKyChamber.com

December 1, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Pegasus Industries confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing volunteer time for teaching, mentoring and committees, internships, employment opportunities, office & /or training space, to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,





December 1, 2016

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Pegasus Industries, LLC

Role: Industry

Pegasus will support The IGNITE Initiative by:

- Committing to provide volunteers for training, mentorships, & committees
- Committing to hiring graduates with level 1 certification
- Host two internships, per semester, to high school students
- Host tour site visits
- Provide input for training and curriculum for career and technical classes
- Work collaboratively with high schools to provide problem based learning opportunities
- Continued advocacy to support funding for Workforce Development Liaison.
- Continued training through Shelby County Associated Industries "Training Consortium", (projected training of 22 employees in 2017)

A handwritten signature in black ink, appearing to read "Stephen Meador". The signature is fluid and cursive, written in a professional style.

Stephen Meador

Shelby County Industries Chairmen
President Pegasus Industries

November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Superb IPC, industrial powder coaters located in Shelby County confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing time and expertise for internships in our production office operations, training space as needed, and financial support to this community-wide effort. We have immediate openings for many positions, and will support multiple internships on-going.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,



B. Michael Hesketh
President and Owner, Superb IPC



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: **Superb IPC, LLC**

Role: **Industry / Employer**

We will support The IGNITE Initiative by:

- Providing on-going internships for 2-3 office and 1-2 operations/industrial maintenance students every year
- Sending our employees to adult education courses at the facilities for welding, information technology, and business courses in support of their continuing education including Sales, Customer Service, Human Resources, Lean Manufacturing, Purchasing and Inventory/Logistics
- Offering tuition reimbursement for courses completed
- Providing entry level "starting positions" as needed for inexperienced individuals who are beginning their career in an industrial environment – typically 20 – 30 per year ongoing (as growth and/or attrition creates openings)
- Continuing to send employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium. We average (6-8) participants annually
- Committing to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Hosting summer externships for instructors
- Work collaboratively with High Schools to provide problem based learning opportunities
- Providing guest speakers for classes at all grade levels (K-16)
- Hosting Industry Tour site visits for student groups
- Serving on Evaluation Board for Workforce Development Liaison
- Promoting the IGNITE Initiative by sponsoring radio or print media advertisements

B. Michael Hesketh
President and Owner



October 10, 2013

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Macro Plastics, Inc. confirms our support and commitment for Shelby County Public Schools ***Ignite Initiative*** as part of the Work Ready Skills Initiative grant.

The ***Ignite Initiative*** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The ***Ignite Initiative*** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's ***Ignite Initiative*** by committing training opportunities for existing employees, employment opportunity consideration, and tours of our facility to this community-wide effort.

The Shelby County ***Ignite Initiative*** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. ***Ignite Initiative*** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

MACRO PLASTICS 2250 Huntington Drive, Fairfield, CA 94533 800.845.6555 www.macroplastics.com





If you need further information, please contact me at 707.437.1200 or youremail@macroplastics.com.

Best regards,

Jonathan W. Kitchen
Plant Manager

MACRO PLASTICS 2250 Huntington Drive, Fairfield, CA 94533 800.845.6555 www.macroplastics.com





November 30, 2016

Ref.: The IGNITE Initiative

To Whom It May Concern:

Work Ready Skills Initiative
The IGNITE Initiative
Project Partner: Macro Plastics
Role: Industry

We will support The IGNITE Initiative by:

- Sending 5 employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium.
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Work collaboratively with High Schools to provide problem based learning opportunities
- Host Industry Tour site visits for student groups

If you need further information, please contact me at 707.437.1200 or jkitchen@macroplastics.com.

Best regards,

Jonathan Kitchen
Plant Manager

MACRO PLASTICS 2250 Huntington Drive, Fairfield, CA 94533 800.845.6555 www.macroplastics.com





Katayama American Company, Inc.

6901 Midland Industrial Drive

Shelbyville, Kentucky 40065

Phone: (502) 633-7280

Fax: (502) 633-2537

11/29/16

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Katayama American Company, Inc. confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing equipment and training of our employees to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

Mark Baker



Katayama American Company, Inc.

6901 Midland Industrial Drive

Shelbyville, Kentucky 40065

Phone: (502) 633-7280

Fax: (502) 633-2537

**Work Ready Skills Initiative
The IGNITE Initiative**

Project Partner: Katayama American Company, Inc.
Role: Industry

We will support The IGNITE Initiative by:

- Supporting with potential used shop equipment as it becomes available
- Supporting by sending our employees to training through SCAI training consortium (up to 10 employees)

Signature: 

Title: Vice President

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Martintrea Heavy Stamping, Inc. Shelbyville, KY confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center, Eminence Independent Schools, and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the-art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing: time, expertise, resources, equipment, staff, internships, employment opportunities, teachers, volunteers, office or training space, etc., to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Mark Whitten
General Manager
Martintrea Heavy Stamping Inc.



MARTINREA HEAVY STAMPINGS INC.

A Martinrea Enterprise

The IGNITE Initiative

November 29, 2016

Project Partner: Martinrea Heavy Stamping Inc.

Role: Industrial Manufacturing

We will support The IGNITE Initiative by the following avenues:

- Commit to offer work-based learning opportunities through our internships through shadowing
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Work collaboratively with High Schools to provide problem based learning opportunities
- Serve on the Local Planning Committee for JCTC Shelby Campus
- Serve on the Local Planning Committee for the Area Technology Center
- Serve on Advisory Council for high school career pathways
- Provide guest speakers for classes at all grade levels (K-16)

Respectfully;

Mark Whitten

Signature: _____

Title: General Manager

Nifco

AMERICA CORP.

Precision Plastics, Automated Assembly, and Design

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Nifco America Corporation confirms our support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

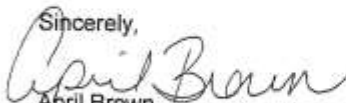
Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's **Ignite Initiative** by committing **internships and employment opportunities** to this community-wide effort.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

April Brown
HR Manager

Corporate Headquarters: 8015 Dove Parkway, Canal Winchester, OH 43110, Tel: 614-920-6800, Fax: 614-920-6998

Michigan: 2125 Butterfield Drive, Suite 102, Troy MI 48064, Tel: 800-279-4943, Fax: 248-649-2828

Tennessee: 130 Wheeler Street, La Vergne, TN 37086, Tel: 877-218-7507, Fax: 866-405-6941

Kentucky: 380 Hudson Blvd, Shelbyville, KY 40065, Tel: 866-752-0789, Fax: 502-844-2139



ISO/TS 16949:2009
TS 552243
ISO 14001:2004
EMS 68707

CORP-AF-100, Rev 5.0 Effective Date 4/13/2016

Nifco

AMERICA CORP.

Precision Plastics, Automated Assembly, and Design

November 29, 2016

Work Ready Skills Initiative
The IGNITE Initiative
Project Partner: Nifco America Corp.
Role: Industry

We will support The IGNITE Initiative by:

- Sending employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium
- Commit to offer work-based learning opportunities (co-ops, internships, shadowing) for high school students in the various career pathways
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Host 2 internships for high school students during the school year
- Work collaboratively with High Schools to provide problem based learning opportunities
- Host Industry Tour site visits for student groups


April Brown
HR Manager

Corporate Headquarters: 8015 Dove Parkway, Canal Winchester, OH 43110, Tel: 614-920-6800, Fax: 614-920-6998

Michigan: 2125 Butterfield Drive, Suite 102, Troy MI 48064, Tel: 800-279-4943, Fax: 248-649-2828
Tennessee: 130 Wheeler Street, La Vergne, TN 37086, Tel: 877-218-7507, Fax: 866-405-6941
Kentucky: 380 Hudson Blvd, Shelbyville, KY 40065, Tel: 866-752-0789, Fax: 502-844-2139



ISO/TS 16949:2009
TS 552243
ISO 14001:2004
EMS 68707

CORP-AF-100, Rev 5.0 Effective Date 4/13/2016



39 Pearce Industrial Road
Shelbyville, KY 40065
(502) 633-1040

12/01/2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Revere Packaging, LLC confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center, Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing to plant tours, product donation and membership to the Industrial Foundation to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

Danielle Crowe
Human Resources



39 Pearce Industrial Road
Shelbyville, KY 40065
(502) 633-1040

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Revere Packaging, LLC

Role: Industry

We will support The IGNITE Initiative by:

- Student Plant Tours
- Product donations
- Industrial Membership

Signature: Danell Lowe
Title: Human Resources

Process Machinery, Inc.

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Process Machinery Inc confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing time, expertise, materials, finances, internships, employment opportunities, and volunteers to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,



Jennifer Ratterman
Executive Vice President
Process Machinery Inc

Corporate Offices
Equipment & Systems
Parts & Service
888 760-1523 Automated
800 860-1523 Operator
888 860-1082 Fax

Columbus Branch
Parts & Service
888 760-1523 Automated
866 249-4330 Operator
866 249-4350 Fax

Serving the Aggregate and Mining Industry since 1979

Process Machinery, Inc.

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Process Machinery Inc

Role: Industry

We will support the IGNITE Initiative by:

- Provide gifts in kind in the form of materials for classroom and shop use (ex: Steel for welding and industrial classes)
- Sending ten or more employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium.
- Commit to work-based learning opportunities such as co-ops, internships and shadowing for high school students seeking mechanical (technician) or engineering career paths.
- Register to offer paid apprenticeships to qualified candidates in the mechanical technician fields
- Commit to interview and hire qualified graduates who have completed Level 1 Credential
- Promote the IGNITE Initiative as a viable way to advance our human capital
- Work with the local schools to provide problem based learning opportunities
- Serve on Advisory Council for high school career pathways
- Serve on boards and councils as needed to promote the IGNITE Initiative
- Provide input for training and curriculum for career and technical classes
- Provide guest speakers for classes at all grade levels (K-12) for manufacturing, engineering and business management

Sincerely,



Jennifer Ratterman

Executive Vice President

Process Machinery Inc

1636 Isaac Shelby Drive

Shelbyville KY 40065

Corporate Offices

Equipment & Systems
Parts & Service
888 760-1523 Automated
800 860-1523 Operator
888 860-1082 Fax

Columbus Branch

Parts & Service
888 760-1523 Automated
866 249-4330 Operator
866 249-4350 Fax

Serving the Aggregate and Mining Industry since 1979

F.B. PURNELL SAUSAGE CO., INC.

ROBERT E. PURNELL
ALLEN D. PURNELL
FRED T. PURNELL



F.B. PURNELL, SR., Founder (1900-1974)
FRED B. PURNELL, JR. (1933-2000)

November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **F.B. Purnell Sausage Co., Inc.** confirms our support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's **Ignite Initiative** by committing **employment opportunities** to this community-wide effort.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

Ida Guier, Human Resource Director

Box 366, Simpsonville, Kentucky 40067 • (502) 722-5626

F.B. PURNELL SAUSAGE CO., INC.

ROBERT E. PURNELL
ALLEN D. PURNELL
FRED T. PURNELL



F.B. PURNELL, SR., Founder (1900-1974)
FRED B. PURNELL, JR. (1933-2000)

**Work Ready Skills Initiative
The IGNITE Initiative**

Project Partner: F.B. PURNELL SAUSAGE CO., INC
Role: INDUSTRY

We will support The IGNITE Initiative by:

- Sending employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium (1-5)
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Maintenance Technician etc.

Signature: Ida Green

Title: Human Resource Director

Box 366, Simpsonville, Kentucky 40067 • (502) 722-5626



December 1, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Logan's Healthcare confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing our time, expertise, resources, equipment, staff internships, volunteers, office or training space and employment opportunities to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

Joe Wisdom
Vice President of Operations
Logan's Healthcare

Healthcare Linen Division
Shelbyville (502) 633-0298

P.O. Box 729
800-928-0808

Shelbyville, Kentucky 40066
Fax (502) 633-3091



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Logan's Healthcare

Role: Industry

We will support The IGNITE Initiative by:

- Sending employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium. We plan to send 45 employees for training in 2017
- Commit to offer work-based learning opportunities such as co-ops and shadowing for high school students in the various career pathways
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Promote the plan as a viable way toward advancement in your company
- Work collaboratively with High Schools to provide problem based learning opportunities
- Host Industry Tour site visits for student groups

Signature:

Title:

VP of Operations



November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Logan's Uniform Rental confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center, Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing our time, expertise, resources, volunteers, and employment opportunities to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

Kelly Shouse
HR Director
Logan's Uniform Rental

Uniform Rental
800-766-0808

P.O. Box 729
(502) 633-3616

Shelbyville, Kentucky 40065-0729
Fax (502) 633-6077



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Logan's Uniform Rental

Role: Industry

We will support The IGNITE Initiative by:

- Sending employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium. We plan to send 5-6 employees in 2017 for training
- Commit to offer work-based learning opportunities such as co-ops and shadowing for high school students in the various career pathways
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Promote the plan as a viable way toward advancement in your company
- Work collaboratively with High Schools to provide problem based learning opportunities
- Host Industry Tour site visits for student groups

Signature:

Kelly Shouse

Title:

HR Director

Uniform Rental
800-766-0808

P.O. Box 729
(502) 633-3616

Shelbyville, Kentucky 40065-0729
Fax (502) 633-6077

11/28/16

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Bekaert Corporation
2000 Isaac Shelby Drive
Shelbyville, KY 40065
US
T +1 502 633 6722
+1 800 344 3925
F +1 502 633 1561
www.bekaert.com

Dear Dr. Neihof,

The Bekaert Corporation confirms our support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's **Ignite Initiative** by committing time, expertise, resources, and employment opportunities to this community-wide effort.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,



Mike Brown
Plant Manager
Bekaert Corporation
2000 Isaac Shelby Drive
Shelbyville, KY 40065

Bekaert Corporation
2000 Isaac Shelby Drive
Shelbyville, KY 40065
US
T +1 502 633 6722
+1 800 344 3825
F +1 502 633 1561
www.bekaert.com

Work Ready Skills Initiative
The IGNITE Initiative
Project Partner: Bekaert Corporation
Role: Industry

We will support The IGNITE Initiative by:

- Commit to offer work-based learning opportunities (co-ops, internships, shadowing) for high school students in the various career pathways
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Host Industry Tour site visits for student groups

Signature: 
Title: Plant Manager



December 1, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Amcor Flexibles Americas Shelbyville manufacturing site confirms our support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.


We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's **Ignite Initiative** by committing to assist in this community-wide effort by providing plant tours, hosting meetings, Amcor co-worker community volunteerism and by employment opportunities for qualified Ignite Initiative graduates.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

 12/1/16
Ron Jones
General Manager
Amcor Flexibles Americas Shelbyville

Amcor Flexibles Shelbyville
6850 Midland Industrial Dr.
T +1502 232 7800 www.amcor.com



Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Amcor Flexibles Americas Shelbyville
Role: Manufacturing

We will support The IGNITE Initiative by:

- Hosting plant tours when requested
- Continuing to send co-workers to Training Consortium sponsored education (10-20 per year)
- Allowing Amcor co-workers to serve on related boards and sub-committees (Education Committee, Training Consortium, etc.)
- Will commit to interview CPT graduates when Amcor has position openings

A handwritten signature in black ink, appearing to read "Ron Jones", followed by the date "12/1/16".

12/1/16

Ron Jones

General Manager
Amcor Flexibles Americas Shelbyville

Amcor Flexibles Shelbyville
6850 Midland Industrial Dr.
T +1502 232 7800 www.amcor.com



Ohio Valley Aluminum Co., LLC
1100 Brooks Industrial Road • Shelbyville, KY 40065
502.633.2783 • 502.633.0589/Fax • 800.692.4145
www.ovaco.com/Website • sales@ovaco.com/Email

November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **Ohio Valley Aluminum Company** confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing **time and employment opportunities** to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

A handwritten signature in black ink that reads 'Vicki Edwards'. The signature is written in a cursive, flowing style.

Vicki Edwards
Human Resources Manager

Manufacturer of quality aluminum billets since 1955.



Ohio Valley Aluminum Co., LLC
1100 Brooks Industrial Road • Shelbyville, KY 40065
502.633.2783 • 502.633.0589/Fax • 800.692.4145
www.ovaco.com/Website • sales@ovaco.com/Email

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Ohio Valley Aluminum Company

Role: Industry

We will support The IGNITE Initiative by:

- Sending potentially 2 – 4 employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc

Signature: Vicki Edwards

Title: Human Resources Manager

Manufacturer of quality aluminum billets since 1955.

STELISED INC
125 CITIZENS BLVD
SIMPSONVILLE, KY 40067
502-722-0272

Manufacturing. Engineering. Dedicated to American Labor.

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Stelised Inc. confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing time, expertise, internships, and employment opportunities, to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,



Brian Desilets, President
Stelised Inc

**STELISED INC
125 CITIZENS BLVD
SIMPSONVILLE, KY 40067
502-722-0272**

Manufacturing, Engineering Dedicated to American Labor

November 29, 2016

To Whom it may concern:

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Stelised Inc

Role: Industry

We will support The IGNITE Initiative by:

- Commit to offer work-based learning opportunities (co-ops, internships, shadowing) for high school students in the various career pathways
- Work collaboratively with High Schools to provide problem based learning opportunities
- Sending employees through trainings and coursework provided by the Shelby County Associated Industries Training Consortium (anywhere between 4 to 6 trainees)
- Host Industry Tour site visits for student groups
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician, Work Ethic Certification, NIMS, etc.
- Provide input for training and curriculum for career and technical classes

Signature: Brian Lusk
Title: President

voestalpine Roll Forming Corporation

1070 Brooks Industrial Road, Shelbyville, KY 40065
PO Box 369, Shelbyville, KY 40065
T. +1 502 633 4435
F. +1 502 633 6824

November 29, 2106

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Voestalpine Roll Forming Corporation confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the-art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing to the following:

- Commit to offer work-based learning opportunities (co-ops, internships, shadowing) for high school students in the various career pathways
- Consider registering to offer paid apprenticeships
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician,
- Serve on Evaluation Board for Workforce Development Liaison
- Host 2 internships for high school students during the school year
- Host summer externships for instructors
- Work collaboratively with High Schools to provide problem based learning opportunities
- Serve on the Local Planning Committee for the Area Technology Center
- Sending 10-15 employees through training and coursework provided by the Training Consortia.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Patty Sweasy

voestalpine
ONE STEP AHEAD.

voestalpine Roll Forming Corporation

1070 Brooks Industrial Road, Shelbyville, KY 40065
PO Box 389, Shelbyville, KY 40066
T, +1 502 633 4435
F, +1 502 633 5824

Work Ready Skills Initiative

The IGNITE Initiative

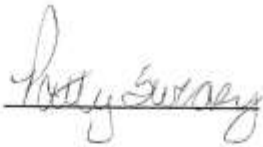
Project Partner: Voestalpine Roll Forming Corporation

Role: Industry – Manufacturing

We will support The IGNITE Initiative by:

- Commit to offer work-based learning opportunities (co-ops, internships, shadowing) for high school students in the various career pathways
- Consider registering to offer paid apprenticeships
- Commit to interview and hire graduates who have completed Level 1 Credential, such as Certified Production Technician,
- Serve on Evaluation Board for Workforce Development Liaison
- Host 2 Internships for high school students during the school year
- Host summer externships for instructors
- Work collaboratively with High Schools to provide problem based learning opportunities
- Serve on the Local Planning Committee for the Area Technology Center
- Sending 10-15 employees through training and coursework provided by the Training Consortia.

Signature:



Title: Training Manager

voestalpine
ONE STEP AHEAD.

11/30/2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

Biaze Products Corporation confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The *Ignite Initiative* workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's *Ignite Initiative* by committing employment opportunities to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Andy J. Gonsky - President
Biaze Products Corp.

Eminence Independent Schools

Eminence Independent Schools
254 W. Broadway
Eminence, Kentucky 40019



(502) 845-5427
Fax (502) 845-1310
www.eminence.kvschools.us

November 30, 2016

Dear Dr. Neihof,

Eminence Independent Schools remains steadfast in our commitment to partnering with Shelby County Public Schools and the *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

We look forward to continuing the outstanding collaboration between our districts, Jefferson County Community and Technical College and the Shelby County Area Technology Center. Eminence Independent Schools values our longstanding partnership and desires to continue to improve the opportunities for workforce training for students within our districts and throughout the region.

We applaud both your leadership and vision and are grateful for your willingness to partner with our district to advance the opportunities for all students in the surrounding region. Certainly, a collaborative and collective effort is required in order to address the growing need within our districts to produce a manufacturing base within the region at a time when the demand for advanced manufacturing positions greatly exceeds the number well trained workers available.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future.

We will support Shelby County's *Ignite Initiative* by committing both to continue sending our students to the Shelby County Area Technology Center and to upgrading and improving the facilities on our campus in order to offer training and coursework to prepare students for careers in advanced manufacturing.

The Shelby County *Ignite Initiative* will have a substantial economic and educational benefit for our students and community in Henry County just as it will in Shelby County and the surrounding region. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

We look forward to continued partnership and collaboration.

Sincerely,

A handwritten signature in black ink that reads 'Buddy Berry'.

Dr. Buddy Berry, Superintendent
Eminence Independent Schools

Expect Eminence Excellence!

Eminence Independent Schools

Board of Education
291 W. Broadway
Eminence, Kentucky 40019



(502) 845-4788
Fax (502) 845-2339
www.eminence.kyschools.us

Work Ready Skills Initiative
The IGNITE Initiative
Project Partner: Eminence Independent Schools
Role: Education

We will support The IGNITE Initiative by:

- Upgrading and expanding our facilities to include classrooms and equipment in order to offer coursework and training for preparation for advanced manufacturing careers on our campus.
- Offering a middle school elective pathway at Eminence which is available to students in Eminence Middle School, Shelby County East Middle and Shelby County West Middle.
- Providing classrooms, labs, equipment and administrative support.
- Providing an instructor for the courses
- Promoting the IGNITE Initiative with students
- Sending Eminence students to the Shelby County Area Technology Center for courses that are not offered on our campus.

Signature: 
Title: Superintendent, Eminence Independent Schools

Commonwealth of Kentucky

STATE SENATE



6102 Cropper Road
Shelbyville, KY 40065
paul.hornback@lrc.state.ky.us

Paul Hornback

State Capitol Annex
Frankfort, Kentucky 40601
(800) 372-7181
(502) 564-8100 Ext. 648
Fax (502) 564-6543

November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

I would like to confirm my support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. I applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

I will support Shelby County's **Ignite Initiative** by committing my time and expertise to help develop and implement the program, and by promoting it with students, parents and businesses in our region.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Paul Hornback".

Paul Hornback
Senator

Commonwealth of Kentucky

STATE SENATE



6102 Cropper Road
Shelbyville, KY 40065
paul.hornback@lrc.state.ky.us

Paul Hornback

State Capitol Annex
Frankfort, Kentucky 40601
(800) 372-7181
(502) 564-8100 Ext. 648
Fax (502) 564-6543

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Senator Paul Hornback

Role: KY State Senator

I will support The IGNITE Initiative by:

- Participation in the planning and implementation of the Ignite Initiative
- Promotion of the Ignite Initiative
- Serving on the Shelby County ATC Advisory Committee
- Serving as a guest speaker to students and adults
- Supporting Advanced Manufacturing locally, regionally and at the state level, as appropriate

Signature:

Title:

Paul Hornback
Senator



"Good Land, Good Living, Good People"

Rob Rothenburger
Judge/Executive

SHELBY COUNTY FISCAL COURT

419 Washington Street
Shelbyville, KY 40065
Phone: (502) 633-1220
Fax: (502) 633-7623

Rusty Newton
Deputy Judge/Executive

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **Shelby County Fiscal Court** confirms our support and commitment for Shelby County Public Schools *Ignite Initiative* as part of the Work Ready Skills Initiative grant.

The *Ignite Initiative* recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

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We support Shelby County's *Ignite Initiative* by committing **time, expertise, resources, equipment, internships, employment opportunities, office or training space, etc.** to this community-wide effort.

The Shelby County *Ignite Initiative* will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. *Ignite Initiative* will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Rob Rothenburger
Judge-Executive



"Good Land, Good Living, Good People"

Rob Rothenburger
Judge/Executive

SHELBY COUNTY FISCAL COURT

419 Washington Street
Shelbyville, KY 40065
Phone: (502) 633-1220
Fax: (502) 633-7623

Rusty Newton
Deputy Judge/Executive

Work Ready Skills Initiative

The IGNITE Initiative

Project Partner: Shelby County Fiscal Court

Role: Local Government

We will support The IGNITE Initiative by:

- Promoting the IGNITE Initiative
- Serve on the Evaluation Board for Workforce Development
- Host Internships for high school students
- Serve on the Local Planning Committee for the Area Technology Center
- Serve on the Local Planning Committee for JCTC Shelby Campus
- Participate in the planning and design of the IGNITE Initiative

Signature: 
Title: Shelby County Judge-Executive



Thomas L. Hardesty, Mayor

P.O. Box 1289
Shelbyville, Kentucky 40066-3289
502-633-0011 • Fax: 502-633-4292
1-800-247-2510 for the Hearing Impaired
www.shelbyvillekentucky.com

November 30, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Dr. Neihof,

The **City of Shelbyville** confirms our support and commitment for Shelby County Public Schools **Ignite Initiative** as part of the Work Ready Skills Initiative grant.

The **Ignite Initiative** recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The **Ignite Initiative** workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's **Ignite Initiative** by committing time, expertise, resources, and employment opportunities to this community-wide effort.

The Shelby County **Ignite Initiative** will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. **Ignite Initiative** will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Sincerely,


Thomas L. Hardesty, Mayor

315 Washington Street • Shelbyville, Kentucky 40065



Thomas L. Hardesty, Mayor

P.O. Box 1289
Shelbyville, Kentucky 40066-3289
502-633-0011 • Fax: 502-633-4292
1-800-247-2510 for the Hearing Impaired
www.shelbyvillekentucky.com

**Work Ready Skills Initiative
The IGNITE Initiative**

Project Partner: City of Shelbyville
Role: Local Government

We will support The IGNITE Initiative by:

- Promoting the IGNITE Initiative by posting information on the City's website and Facebook page
- Continue to support funding for Workforce Development Liaison
- Continue to serve on Evaluation Board for Workforce Development Liaison
- Continue to serve on the Local Planning Committee for the Area Technology Center
- Continue to serve on the Local Planning Committee for JCTC Shelby Campus

Signature:

Title: Mayor, City of Shelbyville

Date: November 30, 2016

COMMISSIONERS:

MICHAEL HESSE
273 Grand Central Drive

SHARON CUMMINS
107 Cardinal Drive

CARY VOWELS
207 Rolling Ridge Way

KELLAND GARLAND
103 Rolling Ridge Way



MAYOR
STEVE EDEN

CITY ADMINISTRATOR
DAVID B. EATON

CITY CLERK/TREASURER
DEBBIE BATLINER

CITY ATTORNEY
HITE HAYS

P.O. Box 88
Shelbyville, KY 40066

November 29, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40065

Dear Mr. Neihof,

The City of Simpsonville confirms our support and commitment for Shelby County Public Schools Ignite Initiative as part of the Work Ready Skills Initiative Grant.

The Ignite Initiative recognizes the value of advanced manufacturing and need for continuing education in Shelby County and the surrounding region, which is part of the Golden Triangle that contains the majority of the Commonwealth's citizens. We applaud the collaborative efforts of the business, government and education communities to improve workforce training opportunities. As we are well aware, regional economic development is a boon not only to those counties directly affected, but also to the Commonwealth of Kentucky.

Through the proposed expansions and improvements at the Shelby County Area Technology Center; Eminence Independent Schools; and Jefferson Community and Technical College-Shelby Campus, secondary, post-secondary and adult learners will receive state-of-the-art instruction to help meet the training demands of today and the future. The need is great as the manufacturing base in Shelby County and the region continues to outpace the supply of trained workers.

We also acknowledge the critical need for reinforcing classroom education through hands-on experiences in the workplace. The Ignite Initiative workforce liaison will support the educational experience by connecting business and education through marketing efforts, internships, and project-based/work-based learning opportunities. These experiences help create a seamless transition from school to employment, creating skilled, productive adults who contribute to the economy and attract new business to the region.

We support Shelby County's Ignite Initiative by committing support funding and service to this community-wide effort.

*P.O. Box 378 • 108 Old Veechdale Rd. • Simpsonville, Ky 40067
City: 502-722-8110 • Sewer: 502-722-5634 • Fax: 502-722-8119*

The Shelby County Ignite Initiative will be a substantial benefit for Shelby and surrounding counties, from an educational and economic standpoint. Ignite Initiative will create additional training opportunities for the current and future workforce; will assist unemployed and underemployed citizens; and will develop a well-prepared and skilled labor pool for years to come.

I look forward to the future impact of this project.

Regards,



Steve Eden
Mayor

Jefferson Community & Technical College

Jefferson Community & Technical College will partner with Shelby County Public Schools, Shelby County Area Technology Center, Eminence Independent Schools, and the other partners included in the proposed IGNITE project. The College is accredited by the Southern Association of Colleges and Schools (SACS) and is a member college of the Kentucky Community and Technical College System.

Jefferson's Shelby County campus currently offers Advanced Manufacturing programming in the areas of Industrial Maintenance and Computerized Manufacturing and Machining with the idea of expanding to add Welding instruction once the newly constructed space at the Area Technology Center is made available for use by post-secondary students. The College currently owns 62 acres of land at the Shelby County Campus site, therefore we have adequate property to construct the proposed expansion of the current building and new storage facility proposed in the IGNITE proposal.

Jefferson employs full and part time faculty to instruct in the IMT and CMM programs included in this proposal, additionally the college is staffed to provide student support services including but not limited to: advising, counseling, financial aid, and general education instruction. In addition to traditional technical programming, the college operates a Workforce Solutions Division established to meet the emerging needs of local business and industry. This area develops and delivers industry-specific training for incumbent workers as requested by local business and industry including the Advanced Manufacturing sector. Jefferson brings its expertise in delivering high-quality, low-cost post-secondary education to students in this region.

The college will utilize existing programs that reach out to adults with no high school diploma or GED, unemployed/underemployed adults seeking retraining, dual credit high school students, ESL populations, and single parents on federal assistance seeking educational paths to independence, in order to increase the pipeline of learners for these *in-demand* industry sector jobs. JCTC is also the grantee for the Kentucky Adult Education program in Shelby County, as such, the Shelby Campus houses the program and delivers on-site programming for GED seeking students, providing a seamless pathway to post-secondary programs.

The College has the capacity to manage and coordinate construction projects through the Office of Facilities Management with staff that bring over 20 years of experience in coordinating and managing new construction and renovation projects. The college is also experienced in handling externally funded programs, including federal, state, and local grant and contractual agreements and operates an Office of Grants and Contracts with over 30 years of experience in grants and contractual management. During construction the College will be responsible for the planning, design, and construction of the expansion and renovation of facilities. During the planning and design phase and the procurement of equipment for student use, the college will seek input from the partners in this project with particular emphasis on the needs of instructional faculty and students and local business and industry partners. After construction is complete, the College will deliver workforce training for high school and adult learners, and will use the pathways currently available such as dual credit, AOKY program for high performing GED-seeking technical students, and Vocational English as a Second Language (VESL) programming currently in development. Class scheduling will be in keeping with the demand for classes and will

include the potential for programming days, evenings, and weekend classes Programing for incumbent workers will be planned in conjunction with the supporting business and/or industry.

Office of the President

Bullitt County

505 Buffalo Run Road
Shepherdsville, KY 40165
Telephone: (502) 213-4151

Carrollton Campus

324 Main Street
Carrollton, KY 41008
Telephone: (502) 732-4846

Downtown Campus

109 E. Broadway
Louisville, KY 40202
Telephone: (502) 213-5333

Jefferson Technical Campus

727 W. Chestnut Street
Louisville, KY 40203
Telephone: (502) 213-5333

Shelby County Campus

1361 Frankfort Road
Shelbyville, KY 40065
Telephone: (502) 633-5524

Southwest Campus

1000 Community College Drive
Louisville, KY 40272
Telephone: (502) 213-5333

November 22, 2016

Dr. James Neihof, Superintendent
Shelby County Public Schools
1155 West Main Street
Shelbyville, KY 40066

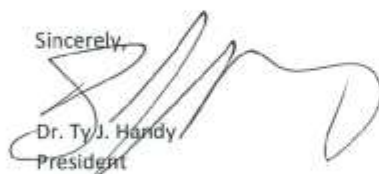
RE: Work Ready Skills Initiative Proposal IGNITE Project

Dear Dr. Neihof,

Oh behalf of Jefferson Community and Technical College, I would like to lend my support of the IGNITE project submitted by Shelby County Public Schools for the Work Ready Skills Initiative. The project would add much needed space and equipment for Advanced Manufacturing programs delivered from our Shelby County campus. While the college owns ample acreage, the physical space to increase our capacity is limited without this planned expansion. As you know, advanced manufacturing programs require large learning labs and expensive equipment and we are pleased that the IGNITE proposal includes comprehensive funding to support each facet needed to teach more high school and adult students.

We look forward to the opportunity to further build on our partnership with your high schools as well as the Shelby County Area Technology Center and Eminence Independent Schools. Jefferson will provide instruction in the Advanced Manufacturing industry sector with programming in Industrial Maintenance, Computerized Machining and Manufacturing and Welding in conjunction with the local ATC. We provide traditional and nontraditional pathways to each program, including dual credit, adult learners, and incumbent worker training through workforce solutions. Please let me know if you require additional information, we look forward to working with you on this important project.

Sincerely,



Dr. Ty J. Handy
President



ATC: your next opportunity begins here and online at usccollege.org

KENTUCKY COMMUNITY & TECHNICAL COLLEGE SYSTEM

Attachment D

Overview

The IGNITE Initiative involves multiple partners that are contributing to a variety of projects that will synergize to impact the sector of Advanced Manufacturing in the region.

D.1 Detailed Line Item of Project Costs

Entity	Project	Cost
Shelby County Public Schools	<ul style="list-style-type: none">Expansion and Renovation of Area Technology CenterEquipment and Furnishings purchased 2014-2016Equipment for the Area Technology CenterFurnishings for the Area Technology CenterMarketing	<p>\$10,300,000</p> <p>\$150,000</p> <p>\$1,759,937</p> <p>\$137,000</p> <p>\$120,000</p>
Shelby County Public Schools Shelby County Associated Industries City of Shelbyville City of Simpsonville Shelby County Fiscal Court Shelby County Industrial Development Foundation	<ul style="list-style-type: none">Workforce Development Coordinator	<p>\$302,475</p> <p>(\$60,495) Annually for five years</p>
Jefferson Community & Technical College – Shelby County Campus	<ul style="list-style-type: none">New Building Construction/AdditionExisting Building RenovateEquipment and Furnishings	<p>\$705,000</p> <p>\$559,850</p> <p>\$1,279,657</p>
Eminence Independent Schools	<ul style="list-style-type: none">Existing Building PurchaseExisting Building RenovationProgram and Equipment	<p>\$250,000</p> <p>\$402,000</p> <p>\$348,000</p>
Total		\$16,236,487
Grant Total Request		\$5,294,507

D.2 Total Initiative Cash Costs

1. Shelby County Public Schools	
Training Equipment at the Area Technology Center	73
Furnishings at the Area Technology Center	75
Floor Plan, 3D Rendering and BG-1 of Expansion and Renovation of ATC	76
2. Shelby County Public Schools and Shelby County Associated Industries	81
Shelby County Workforce Development Coordinator	
3. Jefferson Community and Technical College - Shelby County Campus	82
New Building Construction at JCTC – Shelby	
Existing Building Renovate & Expand at JCTC - Shelby	
Equipment and Furnishings at JCTC - Shelby	
4. Eminence Independent Schools	88
Existing Building Renovation at Eminence Independent Schools	

Shelby County Area Technology Center

Shelby County Public Schools

The school district will provide funding in the amount of \$10.3 Million for [expansion and renovation](#) (video) of the Area Technology Center facility located on Rocket Lane in Shelbyville, Kentucky. This is in addition to the \$150,000 investment made over the past three years. The intent of the expenditures is to expand program offerings and modernize the facility. The upgrades will allow business and industry to conduct training sessions in the evening and JCTC - Shelby to offer night classes for adult learning in all areas. The impact will be felt by students from Henry, Spencer and Shelby Counties while also affecting adults from a 30-mile radius around Shelby County, Kentucky. The attached BG1 form outlines the expenditures that fund the current expansion. Construction has already begun and walls are going up with expansion and renovation to be complete in the fall of 2017. The grant funding would allow us to furnish and equip the facility for use by high school students in the day and adult learners in the evening, instead of reusing obsolete equipment.

Itemized list of Equipment Costs for the Shelby County Area Technology Center

Program	Item Description	QTY	Cost
Welding Technology Equipment	Electric Welding Trainers	12	\$86,035.00
	Gas Cutting and Welding Trainers	12	\$37,409.85
	Hand Tools for Metalworking	12	\$25,674.15
	Hypertherm Plasma Cutter	2	\$8,690.00
	Metal Saws	3	\$10,731.00
	Virtual Welding Trainers	2	\$100,000.00
	3D Printer	1	\$17,000.00
	Welding Technology Total		\$285,540.00
Industrial Maintenance Technology Equipment	Motor Controls Trainer	1	\$45,895.00
	Pneumatics	1	\$44,435.00
	Mechanical Trainer	1	48,262.000
	MecLabs Mechatronics Trainer	1	\$23,810.00
	AC/DC Training System-PLC Trainer	1	\$37,899.00
	Rigging and Training System	1	\$12,645.00
	KUKA Robotics KORE Trainer	1	\$51,116.00
	Z-Space Virtual Trainer	2	\$100,000.00
	Industrial Maintenance Technology Total		\$364,062.00
Machine Tool Technology Equipment	Manual Lathes	6	\$210,000.00

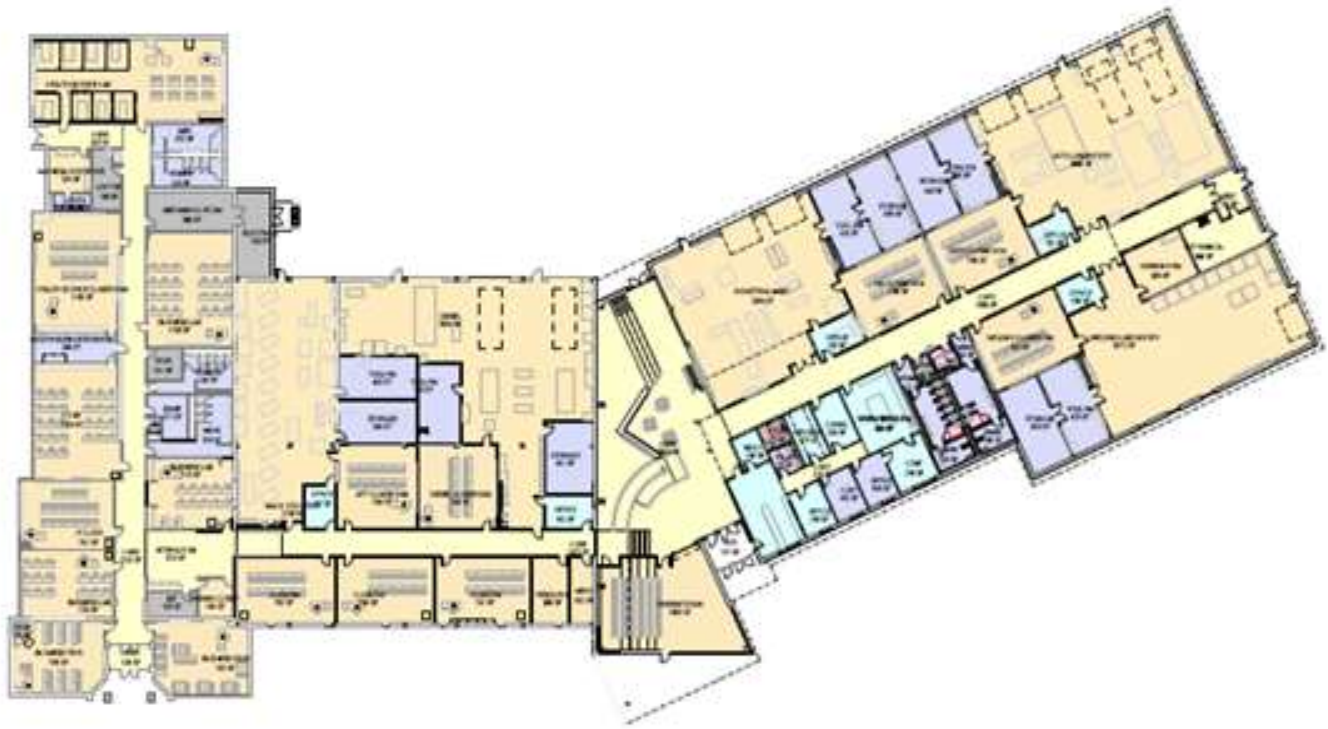
	Manual Mills and Vices	6	\$146,000.00
	Manual Surface Grinders	2	\$50,000.00
	Cut Off Saw and Material Racks		\$12,000.00
	Heat Treat Oven and RC Hardness Tester		\$29,000.00
	Machine Cutting Tools		\$165,000.00
	Metrology Tools		\$2,000.00
	CNC Mill and 3D Printer		\$85,000.00
	Z Space Virtual Trainer	2	\$100,000.00
	Machine Tool Technology Total		\$799,000.00
Diesel Technology Equipment	Truck Diesel Engine (Front Clip)	1	\$50,945.00
	Automotive Diesel Engine (Front Clip)	1	\$39,950.00
	Full Common Rail Engine Cutaway with Electric Motor	1	\$13,495.00
	Cummins Diesel Trainer- Elect. Controlled Common Rail	1	\$31,650.00
	Heavy Duty Starter/Charger Trainer	1	\$11,835.00
	Truck Lighting System Trainer	2	\$9,130.00
	Truck Airbrake Trainer	1	\$16,375.00
	Truck Antilock Brakes and ATC Trainer	1	\$34,225.00
	Combined Basic and Mobile Hydraulics	1	\$34,315.00
	MegaTech- Ford Motor Electrical Program	2	\$18,190.00
	Truck Disk Air Brake Cutaway	1	\$12,975.00
	Heavy Truck Gearbox Cutaway	1	\$10,175.00

	Heavy Duty Rear Axle Cutaway with Locking Differential	1	\$11,075.00
	3D Printer	1	\$17,000
	Diesel Technology Total		\$311,335.00
	GRAND TOTAL		\$1,759,937.00

Itemized list of furniture costs for the Shelby County Area Technology Center

Program	Item Description	Cost
Welding	Furnishings for classroom, office and storage	\$16,500.00
Industrial Maintenance	Furnishings for classroom, office and storage	\$15,500.00
Machine tool	Furnishings for classroom, office and storage	\$17,500.00
Diesel	Furnishings for classroom, office and storage	\$17,500.00
Auto	Furnishings for classroom, office and storage	\$17,500.00
Informational Technology	Furnishings for classroom, and lab	\$33,000.00
Presentation / Lobby / Interaction space	21st Century Furnishings	\$19,500.00
Furnishings Totals		\$137,000.00

Floor Plan, 3D Rendering and BG-1 of Expansion and Renovation of ATC

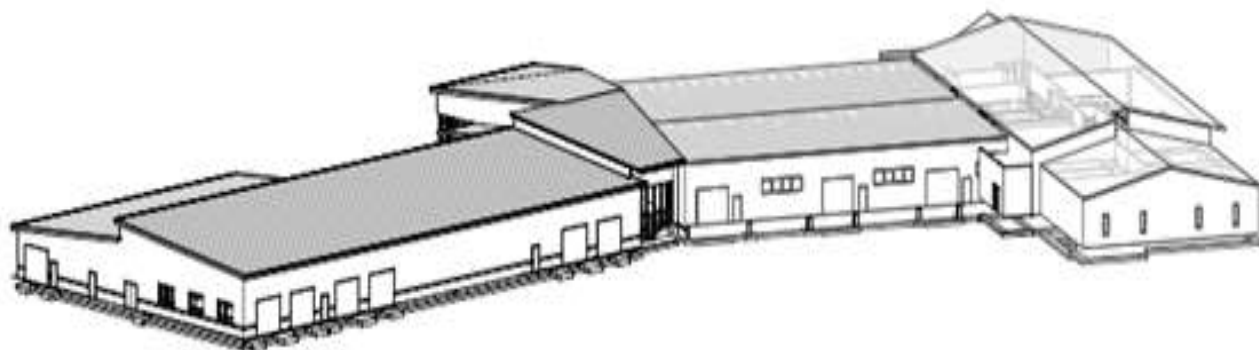
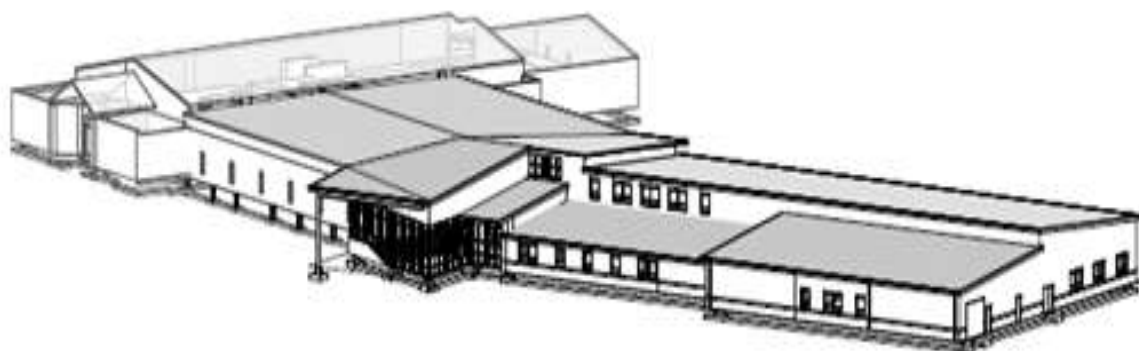
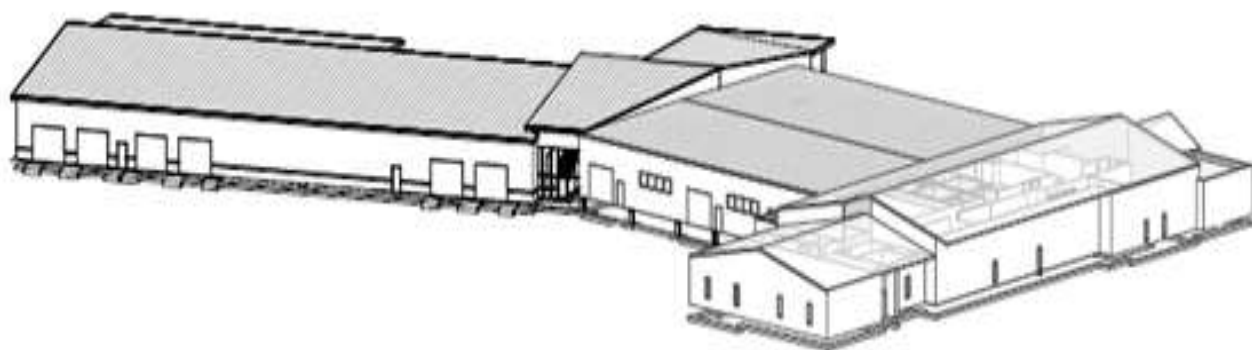


SHELBY COUNTY AREA TECH
CENTER ADDITION & RENOVATION

GROUND FLOOR PLAN

2/25/2018
P-2001190-2000
www.knbaa.com





KENTUCKY DEPARTMENT OF EDUCATION
DIVISION OF FACILITIES MANAGEMENT

BG-1, 2008
Project Application Form
702 KAR 4:160

Emergency ☐

District: SHELBY COUNTY District Code: 531 Facility Name: Area Technology Center School Code: NA

Grade Level Served: 9-12 Current Student Capacity: 164 District Organization Plan: June 2014

1. DESCRIPTION AND SCOPE OF PROPOSED PROJECT

A. Check and complete the applicable items:

1. New Building
2. Addition X
3. Renovation or Alteration (Describe) Renovation of the existing building.
4. Relocatable Classroom. Number Size
5. Equipment/Furnishings Procurement (Describe)
6. Other (Describe)
7. Site (Complete the Following)
 - a. Site Acquisition Expansion Number of Acres
 - b. A site has been acquired in accordance with 702 KAR 4:060 regulations
 - c. Location 230 Rocket Lane, Shelbyville KY 40085
 - d. Proposed site currently owned by District (Y) (N)

B. Compliance with 702 KAR 4:160 and 702 KAR 4:160

This application is being submitted for (refer to current District Facility Plan):

1. Priority Category: 1c,7.
2. Discretionary Item Number:
3. Minor project not listed on Facility Plan:

If none of the above apply, your District Facility Plan will need to be amended.

C. Provide a complete narrative of the proposed project.

Major renovation to the existing school to include monitoring of foundation, upgrades to windows,
interior lighting, plumbing, ADA compliance. Alterations of existing classroom, lab and office areas
to support new programs.

Construct additional classrooms, labs, support and administration areas on current SCATC campus,
or on another campus.

D. Proposed work related to the project but excluded from the scope of this BG1:

Local board order authorizing project and narrative justification must be attached.

Page 1 of 3

E. Program Space Square Footage

Complete for new facilities, additions and renovations.

Renovate and build new additions:

Preschool Elementary Middle X High Alternative Center

Additions or Renovations: (Please mark "R" after total program square footage entered if renovation.)

Number		Total Net Program Sq. Ft.	Number		Total Net Program Sq. Ft.
Instructional:			Support Space:		
	Preschool Classroom (P)		1 R	General Office (GO)	389 R
	Elementary Classroom (E)		3 R	Staff Office (SO)	490 R
2 R	Middle/High Classroom (MH)	1890 R		Administrative Area (AD)	
	Special Education/FMD		1 R	Guidance Office (GUO)	207 R
	(Self-Contained) (SE)			Guidance Reception (GUR)	
	Resource - Elementary (ER)			Custodial Receiving (CR)	
	Resource - Middle/High (MHR)			Site Based Office (SBO)	
	Art - Elementary (ARE)			Site Based Conference (SBC)	
	Art - Middle/High (AR)			Family Resource Area (FRA)	
	Band (BA)			First Aid with Toilet (FA)	
	Vocal Music (MUV)			Records Room (RR)	
	Music (MUE)			Workroom (WR)	
	Computer (Elementary) (COE)			Kitchen (K)	
	Computer - Middle (COM)			Cafeteria (C)	
	Computer - High (COH)		1 R	Mechanical Room (MR)	407 R
	Science Classroom (SCR)		4 R	Other: <u>Storage</u>	582 R
	Science Lecture Lab (SCL)		1	Other: <u>Demonstration area</u>	2000
	Auditorium (AU)				
	Business Education			Bay Bus Garage (BU)	
	Computer Lab (BEL)			Central Office (CO)	
	Pathways to Careers (PC)			Board Room (BR)	
	Marketing Education 1 Lab (ME)			Central Storage Facility (CSF)	
	Fam. & Consumer Sciences (FCS)				
	Industrial Technology (IT)			Other	
	Drafting (DRF)			Other	
2 R	Other <u>Info Tech Lab/Classrm</u>	1,838 R		Other	
3 R	Other <u>Health Sci Lab/Classrm</u>	3544 R			
1 R	Other <u>Health Sci Supply</u>	290 R			
2 R	Other <u>Health Sci Informatics</u>	1,488 R			
2 R	Other <u>Business Tech</u>	1434 R			
1 R	Other <u>Welding Lab</u>	903 R			
2 R	Other <u>Automotive Tech</u>	3562 R			
4 R	Other <u>Auto Tech Tool/Storage</u>	504 R			
1 R	Other <u>Machine Tool Tech</u>	2883 R			
2 R	Other <u>Machine Tool Tech Stor</u>	352 R			
1 R	Other <u>Computer Tech Class</u>	489 R			
1 R	Other <u>Ind Machine Maint</u>	1870 R			
3 R	Other <u>Ind Mach Maint Stor</u>	348 R			
2	Other <u>Technical Lab Spaces</u>	4800			
4	Other <u>Village classrooms</u>	3000			
TOTAL NET PROGRAM SPACE			33,070		
<div style="border: 1px solid black; padding: 5px;"> <p>For Phased Projects:</p> <p>Estimated Total Net Program Square Footage (Include all Phases) _____</p> <p>Estimated Total Construction Cost (Include all Phases) _____</p> <p>Estimated Contract Date of Final Phase _____</p> <p>This BG-1 is for Phase <u>1</u> of <u>1</u> Phases</p> </div>					
Local board order authorizing project and narrative justification must be attached.					

Page 2 of 3

BG 1

Page 2 of 3

BG# 15-301

SCHOOL DISTRICT: SHELBY COUNTY

Initial: R

Revised: 6/16/2016

BG# 15-301

PROPOSED PLAN TO FINANCE APPLICATION

A. Statement of Probable Costs:

1. Total Construction Cost	\$8,851,000.00
2. Architect/Engineer Fee	\$494,569.00
3. Construction Manager Fee	NA
4. Bond Discount	\$160,400.00
5. Fiscal Agent Fee	\$45,080.00
6. Contingencies	\$532,650.00
7. Site Acquisition	NA
8. Equipment/Furnishings	\$250,000.00
9. Equipment/Computers	\$100,000.00
10. Technology Network Sys. (KETS)	NA
11. Other* Survey/Geotech/Inspect	\$80,000.00
12. Other* Print/Permit Fees	\$15,500.00
13. Other* Utility Costs & Pass, Test & Release	\$44,500.00
14. Other* Bank/ Rating/Rounding	\$15,062.69
Total Estimated Cost	\$10,388,661.69

*Define

B. Funds Available:

1. SFCC Cash Requirement	\$1,840,814.00
2. SFCC Bond Req.	\$0.00
3. SFCC Bond Sale	\$1,409,282.00
4. Local Bond Sale	\$8,810,718.00
5. Cash - General Fund	\$0.00
6. Cash - Capital Outlay	\$0.00
7. Cash - Building Fund	\$0.00
8. Cash - Investment Earnings	\$0.00
9. KETS	\$0.00
10. Other BG 12-027 Southside Elementary	\$527,837.69
11. Other	\$0.00
12. Other	\$0.00
13. Other	\$0.00
14. Other	\$0.00
Total Funds Available	\$10,388,661.69

THE ABOVE INFORMATION IS A STATEMENT OF PROBABLE COST AND FUNDS AVAILABLE AND IS REQUIRED TO BE REVISED TO CORRESPOND TO ACTUAL BIDS RECEIVED PRIOR TO THE SIGNING OF CONSTRUCTION CONTRACTS.

TO BE COMPLETED ON INITIAL & REVISED APPLICATION: The signing of this financial document certifies the above stated funds are available and designated for this project during this fiscal year.

[Signature] Superintendent
[Signature] Finance Officer
[Signature] Chairman
 ORIGINAL SIGNATURES REQUIRED

6-16-16 Date
 6/16/16 Date
 6/16/16 Date



NOTE: Any district anticipating the financing of this and/or other projects in a combined school revenue bond should discuss the financing with the Director/Branch Manager, Division of District Operations.

TO BE COMPLETED ON INITIAL APPLICATION:

This building project application is approved by the Division of Facilities Management indicating compliance with current facility plan or minor project under 702 KAR 4:180.

Comments:

[Signature]
 Director/Branch Manager, Facilities Management

Date: 6-21-2016

TO BE COMPLETED ON INITIAL & REVISED APPLICATION:

Initiative financial approval based upon information provided to this office in support of projected cost.

Comments:

[Signature]
 Director/Branch Manager, Division of District Operations

Date: 6/22/16

TO BE COMPLETED ON INITIAL APPLICATION:

This building project application is hereby approved according to the conditions outlined in the application. Proceed in accordance with the attached submittal checklist.

Comments:

[Signature]
 Associate Commissioner, District Support Services

Date: 6/22/16

LOCAL BOARD ORDER AUTHORIZING PROJECT MUST BE ATTACHED ON INITIAL & REVISED APPLICATION

Project: Shelby Co. Area Tech Center Addition and Renovation	Address: 230 Boswell Lane, Shelbyville, KY 40096	Project No.: 14-0510
Bid Opening Date: May 18, 2016	Phone: Shelby County Board of Education	BO No.: 15-301

[illegible]

THIS TABULATION CERTIFIED BY

Date 5/16/16

Workforce Development Coordinator

Shelby County Associated Industries, City of Shelbyville, City of Simpsonville, Shelby County Fiscal Court and Shelby County Industrial & Development Foundation, Shelby County Public Schools

Currently, these partners have joined forces to create a position that is unique to the state of Kentucky in its structure and scope. The Shelby County Workforce Development Coordinator serves as the liaison between education and business in Shelby and surrounding counties. The Coordinator helps to identify and place secondary and post-secondary students in work-based learning opportunities. The Coordinator also works with the existing industries to facilitate combined training opportunities needed in the workplace. These courses include multiple employers with similar educational needs for their employees and range from technical skills to administrative to management training. The goal is to provide real-life work experiences and connections to develop future employees and to educate the existing workforce for higher skilled positions and advancement within their local companies.

The position is currently funded on an annual basis. No grant money would be used for this position. However, by funding IGNITE for equipment and furnishings to train employees, partners would allocate funding to maintain the position for five years.

Shelby County Workforce Development Coordinator

Funding breakdown

Salary:	\$ 45,000
Benefits/taxes:	\$ 3,700
Travel expense:	<u>\$ 2,500</u>
Total	\$ 51,270

Funded by:

Shelby County Public Schools (\$25, 946)
Shelby County Associated Industries (\$6,331)
City of Shelbyville (\$6,331)
City of Simpsonville (\$6,331)
Shelby County Fiscal Court (\$6,331)

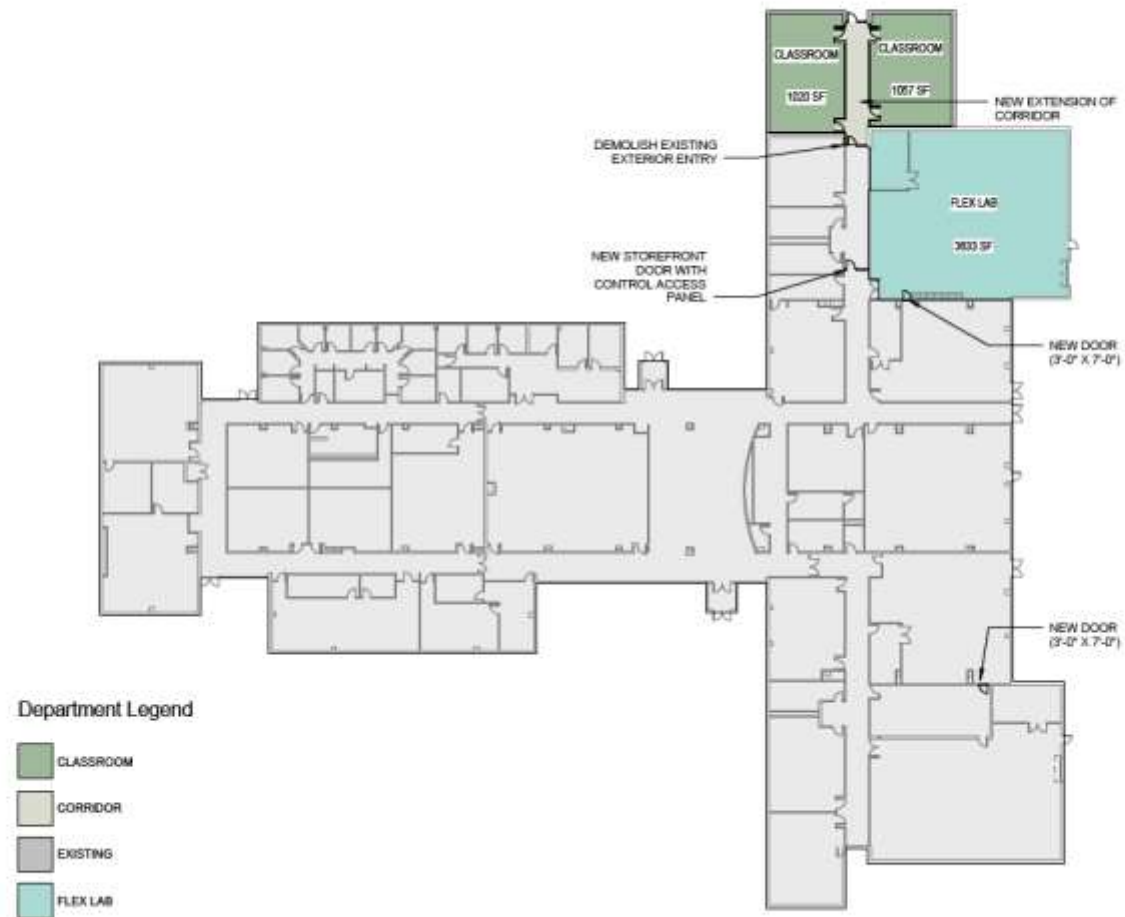
Rent	\$ 3,600
Utilities/phone	\$ 2,520
Payroll/admin	\$ 2,000
Office equipment	\$ 205
Supplies	<u>\$ 900</u>
	\$ 9,225

Funded by in-kind contribution by Shelby County Industrial & Development Foundation:
Office furniture, computer, printer and supplies donated by local industry.

Jefferson Community and Technical College - Shelby Campus

Project cost estimates for new construction were determined by Luckett and Farley, based on their experience in designing and bidding similar projects in comparable areas. Plans and specifications were drafted by this firm after review of current space needs of similar programs, examination of plans and related documents for similar structures across the state, discussions, and input on program needs, site visits of the property to be rehabilitated and the site for new construction. Detailed cost estimates for new construction are included. Equipment costs were determined after consultation with program faculty in related areas and the listing of equipment needed to teach the required curriculum.





12/2/2016



PROJECT NAME: JCTC Shelby Campus Addition / Renovation

LOCATION: Shelbyville, KY

BUILDING SF (Addition):

2,750 GSF: ADDITION

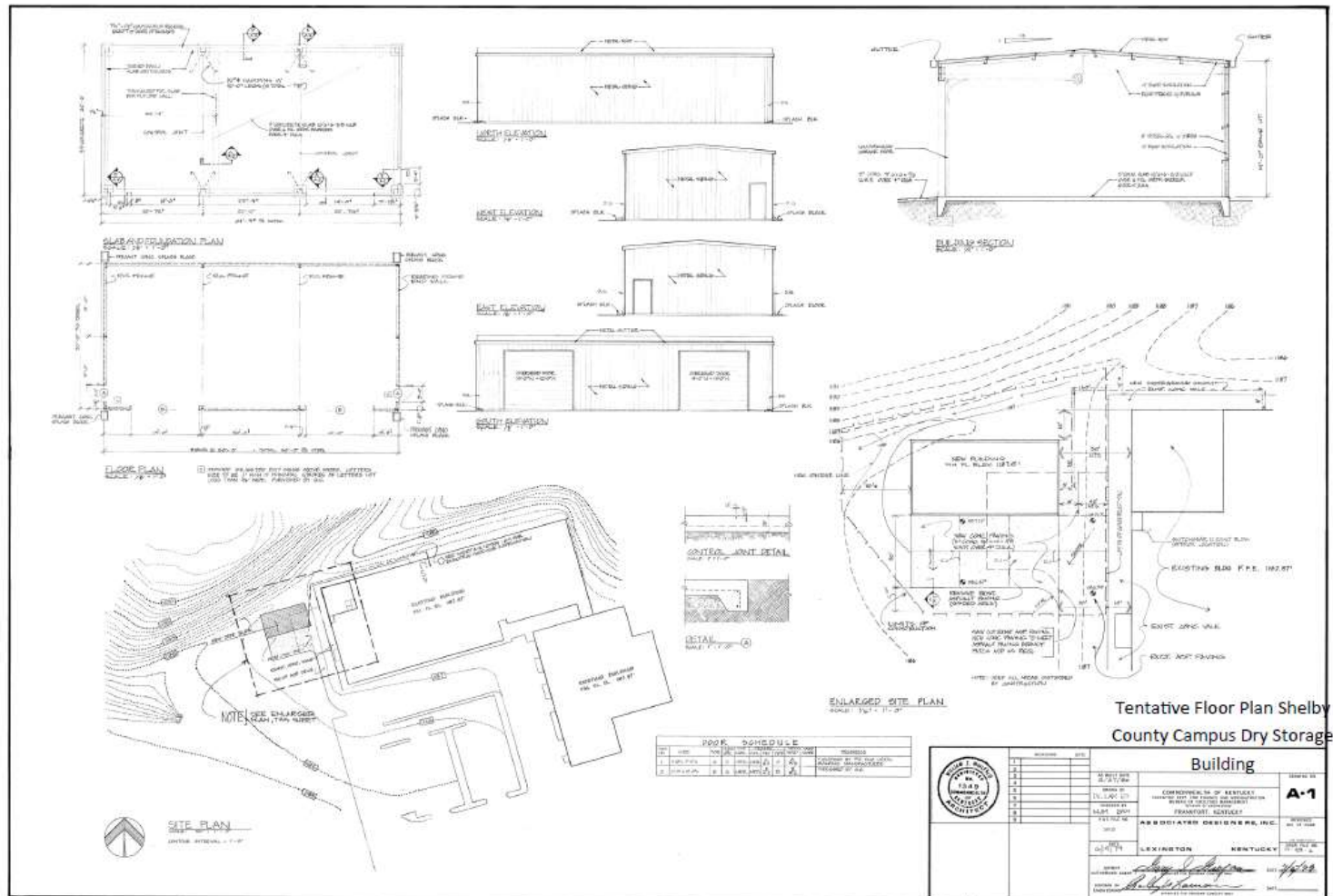
BUILDING SF (Renovation):

4,100 GSF: RENOVATION

6,850 GSF: TOTAL

SYSTEM	COST	SQFT COST	% COST
Site	\$ 44,000.00	\$ 16.00	5%
Demolition	\$ 16,400.00	\$ 4.00	2%
Foundation (None)	\$ 48,125.00	\$ 17.50	6%
Walls	\$ 127,100.00	\$ 31.00	15%
Roof	\$ 68,500.00	\$ 10.00	8%
Finishes & Misc. Interior Improvements	\$ 160,975.00	\$ 23.30	19%
Elevator (None)	\$ -	\$ -	0.0%
Plumbing / Piping Modifications	\$ 20,900.00	\$ 7.60	2%
HVAC New & Modifications	\$ 140,425.00	\$ 20.50	16%
Fire Protection Modifications	\$ 17,875.00	\$ 6.50	2%
Electric / Communications	\$ 147,275.00	\$ 21.50	17%
General Conditions	\$ 54,800.00	\$ 8.00	6%
Building Enclosure Review (None)	\$ 6,165.00	\$ 0.90	0.7%
Bond - P&P	\$ 1,375.00	\$ 0.50	0%
Bond - 5 yr. Roof & Wall	\$ 1,375.00	\$ 0.50	0.2%
TOTALS	\$ 855,290.00	\$ 208.61	100%
TOTAL	\$ 855,290.00	\$ 208.61	
Construction			
Contracts	\$ 855,290.00		
5% Construction Contingency	\$ 42,764.50		
Subcontracts & Materials	\$ 898,054.50	\$ 219.04	
Construction Manager			
Pre Construction Fee	\$ 8,000.00		
3D Model (None)	\$ -		
3% Scaff Costs	\$ 26,941.64		
75% Liability Insurance	\$ 6,735.41		
11% BR Insurance	\$ 987.86		
2% Construction Phase Fee	\$ 36,775.48		
Subtotal	\$ 79,440.38		
GMP Total	\$ 977,494.88	\$ 238.41	
Design			
LEED Design Services	\$ -		
7% Architect/Engineering	\$ 62,863.82		
10% Reimbursable	\$ 6,286.38		
Escalation Allowance	\$ -		
Design Subtotal	\$ 69,150.20		
FF&E			
Furnishings and Equipment	\$ -		
Technologies and Infrastructure (existing infrastructure + supplemental allowance costs included in line items above)	\$ 1,279,657.00		
FF&E Subtotal	\$ 1,279,657.00		
Admin			
Topographical Survey	\$ 3,000.00		
Borings and Testing	\$ 4,000.00		
HAZMAT Remediation	\$ -		
Owner Admin/PM	\$ 5,000.00		
Dedications and Plaques	\$ -		
Reproductions	\$ -		
Moving Allowance	\$ -		
Builder's Risk Insurance	\$ 5,000.00		
5% Owner Contingency	\$ -		
Building Permit Fees/Review	\$ 1,100.00		
LEED Registration Fees	\$ -		
Building Commissioning Fee	\$ -		
3rd Party Verification/Testing/Surveying	\$ -		
Admin Subtotal	\$ 18,100.00		
Subtotal - Project Less Equipment	\$ 1,064,745.08	\$ 259.69	
TOTAL PROJECT	\$ 2,144,402.08		

Outbuilding Cost (200,000) is carried separately and is therefore not included above.



**FINANCE AND ADMINISTRATION CABINET
DEPARTMENT FOR FACILITIES MANAGEMENT
TOTAL PROJECT COST ESTIMATE**

PROJECT DESCRIPTION:

Dry Storage Bldg.
JCTC Shelby Campus

Agency: KCTCS

REFERENCE DATA:

C.O. No.
Div. of Eng. File
Account No.
Prepared by:
Date 6-Dec-16

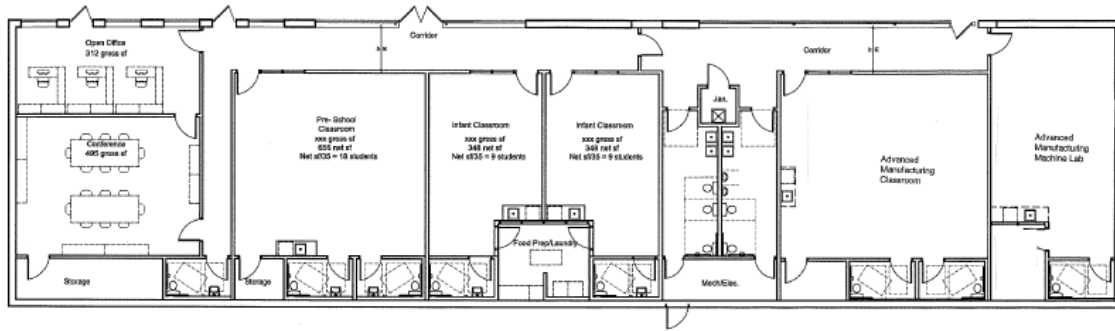
	Site Survey					\$0
7	Subsurface Investigation					\$0
	Architect-Engineer Fee		9.40 %			\$16,000
0	Plan Review Fees & Inspections					\$0
	Special Consultants					
1	Special Inspections					\$0
	Electrical Insp. Fee @	3.4 %	X	\$32,980		\$1,000
F	Resident Inspector Salary	0 Mos. @		\$5,000 per mo.		\$0
U	Testing Costs					\$0
	Duplication of Plans, etc.					\$0
N						
					Subtotal	\$17,000
D	Design Contingencies @	10 %				\$2,000
S	TOTAL (701) FUNDS REQ.					\$19,000

7	Construction Costs:					
0	General Construction					\$164,900
3						
F						
U						
N						
					Subtotal	\$164,900
D	Contingencies @	10 %				\$16,000
S	TOTAL (703) FUNDS REQ.					\$180,900

	EQUIPMENT & FURNISHINGS					\$0
	LAND/ RIGHT-OF-WAY					\$0
	OTHER:					
	TOTAL PROJECT SCOPE					\$199,900

Eminence Independent Schools

Project cost estimate is \$402,000.00 for renovation as projected by Studio Kremer Architects. The remaining \$348,000.00 will be used to equip and furnish the classrooms.



PLAN- CLASSROOM

SCALE: 1/16" = 1'-0"

SCHEMATIC PLANS	SEPTEMBER 3, 2015	DELI PLUS EMINENCE SCHOOL DISTRICT	studio kremer architects 3258 Ruskrigel Parkway, Louisville, KY 40299 TEL. 502.499.1100 FAX 502.499.1101	 studio
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D.3 Schedule for Expenditures, Floor Plans and Renderings

To date, the following work has been initiated:

- \$10.3 Million Design, Expansion and Renovation will be complete in FY17
- Shelby County Workforce Development Coordinator is hired for FY16
- Eminence Independent Schools has purchased property adjacent to the school

Proposed Schedule for Expenditures

Shelby ATC	February 2017	Procurement for equipment for programs
Shelby ATC	August 2017	Doors Open
Shelby ATC	November 2017	Expansion and Renovation Complete
JCTC-Shelby	January 2017 - April 2018	Work Ready skills draw-down to contract for design and construction of Dry storage facility, and the rehabilitation and small addition to the Shelby County Campus building.
JCTC-Shelby	July 2017	Procurement for equipment for programs, some may require a 6 month lead time.
JCTC-Shelby	December 2017/May 2018	Construction Begins – contractor has up to 30 days to submit all documents to the state to begin work and then mobilize their crews Construction period – estimated 6 months minimum. Pushes building opening to Fall 2018/most likely Spring 2019
Eminence Independent	May 2017	Renovate existing space for the new classrooms and programs.
Eminence Independent	July 2017	Attend professional development for teaching methods of new programs.
Eminence Independent	August 2017	Open doors to new Middle School Pathway.

Attachment E: Description of Training and Education at the Facilities

Overview

IGNITE will provide different training paths for high school students, adult learners and long-time unemployed individuals to accelerate each group into the workforce. Each will consist of a system of stackable credentials that allow students to move toward an internship and adult learners to remain employed while taking courses.

E.1.a – c

Total Number of Program Participants that Can Be Served at Any One Time		
Anticipated Number of Participants Separated by Students and Adults that Will Compete Workforce Training and Education Annually		
	762 Adults	80 Students
The Number of Participants Currently Served		
Advanced Manufacturing	319 Adults	0 Students
Number of Participants Anticipated upon Project Completion		
Advanced Manufacturing	762 Adults	80 Students
Number of ADDITIONAL Participants upon Project Completion		
Advanced Manufacturing	443 Adults	80 Students

E.1.d Description of Paths

Middle School Students

Middle School students will complete three courses in a pathway. Student courses will consist of core elements needed as a gateway to advanced manufacturing. These elements will include safety, design thinking, computer aided design, subtractive and additive 3D printing, sublimation, computer numeric control experience, and will earn micro-credentials to be fully certified to work in a digital fabrication lab. The courses will include applications of these tools in community based problem solving and through internships within local industries. Courses will be aligned to high school offerings and will serve as a means for exposing and hopefully drawing more diversity of students from across the overall student body.

High School Students

Soft Skills Training and Assessment

During the 9th Grade year, students will take dual credit courses that include Work Place Practices (WPP 200). This course will formally introduce the soft skills desired by

employers across the state. Students will also begin work toward the Work Ethic Certification approved by the Shelby County Chamber of Commerce and endorsed by local industry. As students progress in work-based learning experiences, they will be formatively assessed by instructors and internship supervisors. Prior to the senior year Internship, the student should receive the Work Ethic Certificate of Progress, indicating they are on the right path toward earning the Work Ethic Certification. During the senior year internship, the internship supervisor will assess both technical and soft skill competencies prior to awarding the credential.

Technical Skill Training and Assessment

High school students will successfully complete four courses in a career pathway by the end of the junior year. At the end of the third course, students will pass an assessment and attain an industry certification. They will also attain the post-secondary requirements for college entrance based upon benchmarks set by Jefferson Community and Technical College. Students will receive dual credit for the four pathway courses from the Local Education Agency and Jefferson Community and Technical College. These dual credit courses will be paid for by the Local Education Agency through Kentucky's Dual Credit Scholarship Program. Students will receive credentialing upon completion of these requirements.

During the senior year of high school, students will successfully complete work-based learning experiences and four dual credit courses which will apply toward the student's technical program and intended Associate's Degree. Again, the dual credit courses will be paid for by the Local Education Agency through Kentucky's Dual Credit Scholarship Program. Students will receive credentialing upon completion of these requirements. High school students may begin courses toward an Associate's Degree as they are ready.

Upon graduation, students may pursue an apprenticeship with an industry partner while completing coursework necessary for the Associate's Degree. The employer sponsoring the apprenticeship will determine the financial assistance provided to the apprentice worker. Many of our partners have already agreed to tuition reimbursement upon passing the course. Credentials will be attained after completion of the Associate's Degree Program.

Adult Learners

Advanced Manufacturing Training through Shelby County Associated Industries and Jefferson Community and Technical College - Shelby Campus will occur at both JCTC - Shelby and the Shelby County Area Technology Center. Industries will send employees for training during the work day or in the evenings. Additional space will be available for Welding courses in the evenings at the SCATC. The training will include the subjects traditionally covered by the Associated Industries Training Consortium for newer employees, and will focus on higher skill development in the same designated higher skill areas:

- Industrial Maintenance and related training
- Computerized Machining and Manufacturing

- Welding Technology
- Diesel Technology

Specialized training in these same areas to meet the short term training needs of [Associated Industries](#) (Video Linked) during the day and in the evenings

Long-term Unemployed Learners and Non-Traditional Adult Learners

We will utilize and leverage Accelerating Opportunities Kentucky (AOKY) program as a pathway that will be used to recruit students. This successful program provides a pathway for individuals without a high school diploma to enroll in technical coursework while they pursue their high school equivalent (GED) credential. As an AOKY student they receive the services of a Success Coach to aid them in their transition into postsecondary education and federal financial aid is available to help pay for coursework. AOKY pathways for Automotive Technology and Information Technology are in place and have proven highly successful for students; additional pathways in advanced manufacturing is under development and can be used as a tool to recruit students into postsecondary programming.

E.1.e List of Courses, Credits, Credentials, Internships and Degrees

- Shelby County Associated Industries will use the Shelby County Area Technology Center and JCTC – Shelby to offer evening and daytime training in the following areas:

Lean Manufacturing	Welding Technology
Lean Office Mapping	Diesel Technology
Failure Mode and Effects Analysis	Industrial Maintenance Technician
OSHA Training	Electronics Technician
CPR & First Aid	Blueprint Reading & GDT
Problem Solving	Microsoft Office Suite
Leadership	Management
Team Building	Supervisor

- Middle School courses will appear as follows:
 - Course 1: Safety, Design Thinking and Computer Aided Design
 - Course 2: Subtractive and additive 3D printing, Sublimation and Computer Numeric Control Experience
 - Course 3: Digital Fabrication and Community Based Problem Solving
- High School Pathways, courses, credentials and internships will appear as follows:

2016-17 KENTUCKY CAREER PATHWAY FOR MAINTENANCE MECHANIC

COLLEGE/UNIVERSITY: Jefferson Community & Technical College

CLUSTER: Manufacturing

HIGH SCHOOL (S): Shelby County Area Technology Center

PATHWAY: Welding Technology

PROGRAM: Entry Level Welder

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES			CREDENTIAL CERTIFICATE DIPLOMA DEGREE	SAMPLE OCCUPATION
S E C O N D A R Y	9	English I	Algebra I	ICP / Earth Space Science	Global Issues	Health and PE	Computer Literacy CIT 105	Digital Literacy OST 105		Industrial Maintenance Electrical Technician
	10	English II	Geometry	Biology	World History	Arts & Humanities	Oxy-fuel Systems WLD 100	Blueprint Reading for Welding WLD 170/171		
	11	English III	Algebra II	Chemistry	U.S. History	Financial Literacy BAS 120	Shielded Metal Arc Welding (SMAW) WLD 120/121	Gas Metal Arc Welding (GMAW) WLD 140/141	Manufacturing KOSSA Certificate	
	12	English IV	Math Elective	Business Law BAS 267	Business Mgmt. BMO 270	Microsoft Office	Industrial Maint. of PLC's IMT 230	Maintaining Industrial Equipment IMT 150	NCCER Certification High School Diploma	
P O S T S E C O N D A R Y	Year 13	ENG 101 Writing	Math	Soc. Gen. Elect.	Humanities	FYS 101	Oxy-Fuel Systems & Lab WLD 100/101	Cutting Processes & Lab WLD 110/111		Maintenance Inspector
	Year 14	ENG 102 Writing	Psychology	Chemistry 101	Humanities Gen. Elect	Comm. 108	Shielded Metal Arc Welding & Lab WLD 120/121	Gas Metal Arc Welding & Lab WLD 140/141	Associate in Applied Science	Maintenance Supervisor
	Year 15	Foreign Language	AMS 271 Industrial Statistics	Chemistry 102	Soc. Gen. Elect.	Gas Tungsten Arc Welding WLD 130/131	Blueprint for Welding & Lab WLD 170/171	Welding Certification & Lab WLD 220/221		Industrial Engineer Tech
	Year 16			GTAW Groove Lab WLD 133	SMAW Groove Welds WLD 123	SMAW Open Groove Lab WLD 225	GMAW Groove Lab WLD 143	Welding Practicum WLD 298	Bachelor of Science	Mechanical Engineer

2016-17 KENTUCKY CAREER PATHWAY FOR MACHINE OPERATOR

COLLEGE/UNIVERSITY: Jefferson Community & Technical College
HIGH SCHOOL (S): Shelby County Area Technology Center

CLUSTER: Manufacturing
PATHWAY: Machine Operator
PROGRAM: Computerized Manufacturing & Machining

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES			CREDENTIAL CERTIFICATE DIPLOMA DEGREE	SAMPLE OCCUPATION
S E C O N D A R Y	9	English I	Algebra I	ICP / Earth Space Science	Global Issues	Health and PE	Computer Literacy CIT 105	Digital Literacy OST 105		
	10	English II	Geometry	Biology	World History	Arts & Humanities	Fundamentals of Machine Tool A CMM 110	Fundamentals of Machine Tool B CMM 112		
	11	English III	Algebra II	Chemistry	U.S. History	Financial Literacy BAS 120	Applied Machining I CMM 120	Applied Machining II CMM 122	Manufacturing KOSSA Certificate	Machinist
					Take ACT	KOSSA &	Industry	Certification		Machine Operator
	12	English IV	Math Elective	Business Law BAS 267	Business Mgmt. BMO 270	Microsoft Office	Special Problems in CMM	CMM Internship	NIMS Certification High School Diploma	Maintenance Mechanic
P O S T S E C O N D A R Y	Year 13	ENG 101 Writing	Math	Soc. Gen. Elect.	Humanities	FYS 101	Fluid Power FPX 100/101	Ind. Maint. Rotating Machinery IMT 120		Maintenance Inspector
	Year 14	ENG 102 Writing	Psychology	Chemistry 101	Humanities Gen. Elect	Comm. 108	Maint. Ind. Equip. IMT 150/151	Ind. Maint. Elect. Motor Controls IMT 220/221	Associate in Applied Science	Maintenance Supervisor
	Year 15	Foreign Language	AMS 271 Industrial Statistics	Chemistry 102	Soc. Gen. Elect.	AMS 310 Work Design/Ergonomics	AMS 365 Systems Operation	AMS 355 Systems Design		Industrial Engineer Tech
	Year 16			Elective	AMS 307 Technical Writing	AMS 371 Quality Assurance	AMS 390 Project Planning & Control	AMS 430 Tech Management / Supervision / Team Building	Bachelor of Science	Mechanical Engineer

2016-17 KENTUCKY CAREER PATHWAY FOR ELECTRICAL TECHNICIAN

COLLEGE/UNIVERSITY: Jefferson Community & Technical College
HIGH SCHOOL (S): Shelby County Area Technology Center

CLUSTER: Manufacturing
PATHWAY: Industrial Maintenance Electrical Technician
PROGRAM: Industrial Maintenance

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES			CREDENTIAL CERTIFICATE DIPLOMA DEGREE	SAMPLE OCCUPATION
S E C O N D A R Y	9	English I	Algebra I	ICP / Earth Space Science	Global Issues	Health and PE	Computer Literacy CIT 105	Digital Literacy OST 105		Industrial Maintenance Electrical Technician
	10	English II	Geometry	Biology	World History	Arts & Humanities	Industrial Maintenance Electrical Principles IMT 110	Industrial Maintenance Electrical Motor Controls IMT 220		
	11	English III	Algebra II	Chemistry	U.S. History	Financial Literacy BAS 120	Industrial Maint. of PLC's IMT 230	Maintaining Industrial Equipment IMT 150	Manufacturing KOSSA Certificate	
					Take ACT	KOSSA &	Industry	Certification		
	12	English IV	Math Elective	Business Law BAS 267	Business Mgmt. BMO 270	Microsoft Office	Special Topics in Industrial Maintenance	Industrial Maintenance Internship	NCCER Certification High School Diploma	
P O S T S E C O N D A R Y	Year 13	ENG 101 Writing	Math	Soc. Gen. Elect.	Humanities	FYS 101	Fluid Power FPX 100/101	Ind. Maint. Rotating Machinery IMT 120		Maintenance Inspector
	Year 14	ENG 102 Writing	Psychology	Chemistry 101	Humanities Gen. Elect	Comm. 108	Maint. Ind. Equip. IMT 150/151	Ind. Maint. Elect. Motor Controls IMT 220/221	Associate in Applied Science	Maintenance Supervisor
	Year 15	Foreign Language	AMS 271 Industrial Statistics	Chemistry 102	Soc. Gen. Elect.	AMS 310 Work Design/Ergonomics	AMS 365 Systems Operation	AMS 355 Systems Design		Industrial Engineer Tech
	Year 16			Elective	AMS 307 Technical Writing	AMS 371 Quality Assurance	AMS 390 Project Planning & Control	AMS 430 Tech Management / Supervision / Team Building	Bachelor of Science	Mechanical Engineer

2016-17 KENTUCKY CAREER PATHWAY FOR AUTOMOTIVE MAINTENANCE & LIGHT REPAIR

COLLEGE/UNIVERSITY:

Possibly Elizabethtown Community &
Technical College

CLUSTER:

Transportation

HIGH SCHOOL (S):

Shelby County Area Technology Center

PATHWAY:

Front End Mechanic (Diesel)

PROGRAM:

Diesel Technology

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES			CREDENTIAL CERTIFICATE DIPLOMA DEGREE	SAMPLE OCCUPATION
S E C O N D A R Y	9	English I	Algebra I	ICP / Earth Space Science	Global Issues	Health and PE	Computer Literacy CIT 105	Digital Literacy OST 105		
	10	English II	Geometry	Biology	World History	Arts & Humanities	Basic Automotive Electricity ADX 120/121	Electrical Systems for Diesel Equipment ADX 260/261		
	11	English III	Algebra II	Chemistry	U.S. History	Microsoft Office	Steering & Suspension (Diesel) DIT 160/161	Preventative Maintenance DIT 103	Transportation KOSSA Certificate	Entry Level Diesel Technician
					Take	ACT, KOSSA &	Industry	Certification		Diesel Mechanic
	12	English IV	Math Elective	Financial Literacy BAS 120	Business Mgmt. BMO 270	Advanced Computer Applications	Special Topics in Diesel	Diesel Internship	ASE Diesel Certification High School Diploma	Customer Service Representative
P O S T S E C O N D A R Y	Year 13	ENG 101 Writing	Math	Soc. Gen. Elect.	Humanities	Basic Auto Electricity & Lab ADX 120 & 121	Brakes & Lab DIT 180/181	Intro to Diesel Engines & Lab DIT 110/111		Maintenance Mechanic
	Year 14	ENG 102 Writing	Psychology	Chemistry 101	Humanities Gen. Elect	Comm. 108	Engine Repair & Lab ADX 150/151	Preventative Maintenance DIT 103	Associate in Applied Science	Service Advisor
	Year 15	Foreign Language	Soc. Gen. Elect.	Chemistry 102	Circuits I ELT 110	Electrical Systems & Lab ADX 260-261	Emission Systems & Lab AUT 142-143	Suspension & Steering DIT 160/161		Maintenance Supervisor
	Year 16					Fluid Power FPX 100/101	Power Trains & Lab DIT 150/151	Diesel Engine Repair & Lab DIT 112/113	Bachelor of Science	Diesel Sales Representative

Post-Secondary List of Courses and Credentials From JCTC - Shelby

Computerized Manufacturing and Machining List of Courses (* = embedded Certificate)	Career Pathway
<p>CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 120 Applied Machining AND 3 CMM 122 Applied Machining II OR 4 CMM 124 Applied Machining (7) CMM 130 Manual Programming AND 3 CMM 132 CAD/CAM/CNC OR 3 CMM 134 Manual Programming/CAD/CAM/CNC (6) CMM 210 Industrial Machining I AND 3 CMM 212 Industrial Machining II OR 4 CMM 214 Industrial Machining (7) CMM 220 Advanced Industrial Machining I AND 4 CMM 222 Advanced Industrial Machining II OR 2 CMM 224 Advanced Industrial Machining (6) CMM 2301 Intro to Conversational Programming AND 3 CMM 2302 Conversational Editing and Subroutines OR 3 CMM 230 Conversational Programming (6) CMM 2401 Intro to 3-D Code Sequencing and Tool Path Production AND 3 CMM 2402 Advanced 3-D Code Sequencing and Macro Systems OR 3 CMM 240 Intro to 3-D Programming (6) BRX 110 Basic Blueprint Reading for Machinist AND 2 BRX 210 Mechanical Blueprint Reading OR 2 BRX 112 Blueprint Reading for Machinist (4) ENG 101 Writing I 3 MAT 116 Technical Mathematics OR 3 MT 125 Technical Algebra and Trigonometry or Higher (3) Heritage/Humanities/Foreign Language 3 Science 3 – 4 Electives 2 - 3 Social Interaction 3 Computer Literacy* 0 - 3 * Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course. CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 120 Applied Machining I AND 3 CMM 122 Applied Machining II OR 4 CMM 124 Applied Machining (7) CMM 130 Manual Programming AND 3 CMM 132 CAD/CAM/CNC OR 3 CMM 134 Manual Programming/CAD/CAM/CNC (6) CMM 210 Industrial Machining I AND 3 CMM 212 Industrial Machining II OR 4 CMM 214 Industrial Machining (7) CMM 220 Advanced Industrial Machining I AND 4 CMM 222 Advanced Industrial Machining II OR 2 CMM 224 Advanced Industrial Machining (6) CMM 2301 Intro to Conversational Programming AND 3 CMM 2302 Conversational Editing and Subroutines OR 3 CMM 230 Conversational Programming (6) CMM 2401 Intro to 3-D Code Sequencing and Tool Path Production AND 3 CMM 2402 Advanced 3-D Code Sequencing and Macro Systems OR 3 CMM 240 Intro to 3-D Programming (6) BRX 110 Basic Blueprint Reading for Machinist AND 2 BRX 210 Mechanical Blueprint Reading OR 2 BRX 112 Blueprint Reading for Machinist (4) ENG 101 Writing I 3 MAT 116 Technical Mathematics OR 3 MT 125 Technical Algebra and Trigonometry or Higher (3) Heritage/Humanities/Foreign Language 3 Science 3 – 4 Electives 2 - 3 Social Interaction 3 Computer Literacy* 0 - 3 * Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course</p> <p>Exploratory Machining I: Prefix and Number Title Credit Hours CMM 114 Fundamentals of Machine Tools OR 7 IEX 295 Special Problems III OR (3) CMM 110 Fundamentals of Machine Tools A AND (3) CMM 112 Fundamentals of Machine Tools B (4) TOTAL CREDITS: 3-7</p> <p>Machine Tool Operator I: Prefix and Number Title Credit Hours CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 130 Manual Programming OR 3 CMM 134 Manual Programming</p>	Exploratory Machining 1 Certificate
	Exploratory Machining 2 Certificate
	Machine Tool Operator 1 Certificate
	Machine tool Operator 2 Certificate
	CNC Operator Certificate
	Tool and Die Apprentice
	CNC Machinist Diploma
	Machinist Diploma
	Associate in Applied Science General Occupational Technical Studies
	<p>GOTS Degree transfers to University of Louisville or Apprenticeship Program</p> <p style="text-align: center;">Computerized Manufacturing and Machining Technology Certificates range from 17 to 34 Credit Hours Diploma 55-58 Credit Hours AAS Degree 65-67 credit hours</p> <p>See previous page for details on credentials available.</p>

Computerized Manufacturing and Machining List of Courses (* = embedded Certificate)	Career Pathway
<p>CAD/CAM/CNC (6) BRX 110 Basic Blueprint Reading for Machinist 2 MAT 116 Technical Mathematics 3 TOTAL CREDITS: 15 – 18 Machine Tool Operator II: Prefix and Number Title Credit Hours CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 120 Applied Machining I AND 3 CMM 122 Applied Machining II OR 4 CMM 124 Applied Machining (7) CMM 130 Manual Programming OR 3</p> <p>CMM 134 Manual Programming CAD/CAM/CNC (6) BRX 110 Basic Blueprint Reading for Machinist 2 Computer Literacy 2-3 MAT 116 Technical Mathematics OR 3MT 125 Technical Algebra AND Trigonometry or Higher (3) TOTAL CREDITS: 27 – 31 CNC Operator: CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 130 Manual Programming AND 3 CMM 132 CAD/CAM/CNC OR 3 CMM 134 Manual Programming CAD/CAM/CNC (6) CMM 2301 Intro to Conversational Programming AND 3 CMM 2302 Conversational Editing and Subroutines OR 3 CMM 230 Conversational Programming (6) BRX 110 Basic Blueprint Reading for Machinist 2 Computer Literacy 2 – 3 MAT 116 Technical Mathematics OR 3 MT 125 Technical Algebra and Trigonometry or Higher (3) TOTAL CREDITS: 29 – 30 Tool & Die Apprentice: Prefix and Number Title Credit Hours CMM 150 Shop Theory OR 2 CMM 110 Fundamentals of Machine Tools A (3) CMM 118 Metrology/Control Charts 3 CMM 151 Machinery's Handbook/Metallurgy OR 3 CMM 112 Fundamentals of Machine Tools B (4) CMM 152 Jigs, Fixtures and Gaging OR 3 CMM 120 Applied Machining 1 (3) CMM 153 Mold Theory 3 CMM 154 Die Theory 3 CMM 130 Manual Programming 3 CMM 132 CAD/CAM/CNC 3 BRX 110 Basic Blueprint Reading for Machinist 2 BRX 210 Mechanical Blueprint Reading 2 MAT 116 Technical Mathematics 3 WLD 151 Basic Welding A OR 2 Computer Literacy OR (2-3) IEX 295 Special Problems III (3) TOTAL CREDITS: 32 – 35 CNC Machinist: Prefix and Number Title Credit Hours CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 120 Applied Machining I AND 3 CMM 122 Applied Machining II OR 4 CMM 124 Applied Machining (7) CMM 130 Manual Programming AND 3 CMM 132 CAD/CAM/CNC OR 3 CMM 134 Manual Programming/CAD/CAM/CNC (6) CMM 210 Industrial Machining I AND 3 CMM 212 Industrial Machining II OR 4 CMM 214 Industrial Machining (7) CMM 220 Advanced Industrial Machining I AND 4 CMM 222 Advanced Industrial Machining II OR 2 CMM 224 Advanced Industrial Machining (6) CMM 2301 Intro to Conversational Programming AND 3 CMM 2302 Conversational Editing and Subroutines OR 3 CMM 230 Conversational Programming (6) CMM 2401 Intro to 3-D Code Sequencing and Tool Path Production AND 3 CMM 2402 Advanced 3-D Code Sequencing and Macro Systems OR 3 CMM 240 Intro to 3-D Programming (6) BRX 110 Basic Blueprint Reading for Machinist AND 2 BRX 210 Mechanical Blueprint Reading OR 2 BRX 112 Blueprint Reading for Machinist (4) MAT 116 Technical Mathematics OR 3 MT 125 Technical Algebra and Trigonometry or Higher (3) Computer Literacy* 0 – 3 General Education chosen from Area I 3 Electives 2 – 3 * Computer literacy must be demonstrated either by competency exam or by completing a computer</p>	<p>See previous page for details on credentials available</p>

Computerized Manufacturing and Machining List of Courses (* = embedded Certificate)	Career Pathway
<p>literacy course. TOTAL CREDITS: 60-64</p> <p>Machinist: Prefix and Number Title Credit Hours</p> <p>CMM 110 Fundamentals of Machine Tools A AND 3 CMM 112 Fundamentals of Machine Tools B OR 4 CMM 114 Fundamentals of Machine Tools (7) CMM 118 Metrology/Control Charts 3 CMM 120 Applied Machining I AND 3 CMM 122 Applied Machining II OR 4 CMM 124 Applied Machining (7) CMM 130 Manual Programming OR 3 CMM 134 Manual Programming/CAD/CAM/CNC (6) CMM 210 Industrial Machining I AND 3 CMM 212 Industrial Machining II OR 4 CMM 214 Industrial Machining (7) CMM 220 Advanced Industrial Machining I AND 4 CMM 222 Advanced Industrial Machining II OR 2 CMM 224 Advanced Industrial Machining (6) BRX 110 Basic Blueprint Reading for Machinist AND 2 BRX 210 Mechanical Blueprint Reading for Machinist OR 2 BRX 112 Blueprint Reading for Machinist (4) MAT 116 Technical Mathematics OR 3 MT 125 Technical Algebra and Trigonometry or Higher (3) Computer Literacy* 0 – 3 General Education from Area I 3 Electives 2 – 3</p> <p>* Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course. TOTAL CREDITS: 45-52</p>	

Welding Technology List of Courses (* = embedded Certificate)	Career Pathway
<p>ENG 101 Writing I 3 MT 110 Applied Mathematics OR 3 MT 145 Contemporary College Mathematics OR (3) MT 150 College Algebra (3) Heritage/Humanities/Foreign Language 3 PHY 151 Introduction to Physics AND 3 PH 161 Introductory Physics Laboratory I OR 1 Science (3) PY 110 General Psychology OR 3 SOC 101 Introduction to Sociology (3) COM 252 Introduction to Interpersonal Communication OR 3 COM 181 Basic Public Speaking (3) Computer Literacy 0-3 GENERAL EDUCATION TOTAL: 18 –22 Required Courses: WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Lab OR 2 WLD 111 Cutting Processes Lab (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory 3 WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Lab OR 3 WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Lab (3) WLD 130 Gas Tungsten Arc Welding (GTAW) 2 WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Lab 3 WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Lab 3 WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 141 Gas Metal Arc Welding (GMAW) Fillet Lab 3 WLD 143 Gas Metal Arc Welding (GMAW) Groove Lab 3 WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Lab 3 WLD 220 Welding Certification 2 WLD 221 Welding Certification Lab 3 WLD 298 Welding Practicum OR 1-6 WLD 299 Cooperative Work Experience (1-6) Technical Electives SUBTOTAL: 42-48 TOTAL: 60-70 Welding Technology Certificates Welder Helper: WLD 151 Basic Welding A OR 2 WLD 120 Shielded Metal Arc Welding (SMAW) AND (2) WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR (3) WLD 130 Gas Tungsten Arc Welding (GTAW) AND (2) WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR (3) WLD 140 Gas Metal Arc Welding (GMAW) AND (2) WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR (3) WLD 152 Basic Welding B (5) TOTAL: 2-5 Gas Welder: WLD 100 Oxy-Fuel Systems 2 WLD 101 Oxy-Fuel Systems 2 TOTAL: 4 ARC Cutter: WLD 110 Cutting Processes 2 WLD 111 Cutting Processes Laboratory 3 TOTAL: 5 Tack Welder: WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Laboratory 3 WLD 151 Basic Welding A OR 2 WLD 120 Shielded Metal Arc Welding (SMAW) AND (2) WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR (3) WLD 130 Gas Tungsten Arc Welding (GTAW) AND (2) WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR (3) WLD 140 Gas Metal Arc Welding (GMAW) AND (2) WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR (3) WLD 152 Basic Welding B (5) TOTAL: 7-10 Production Line Welder: WLD 130 Gas Tungsten Arc Welding (GTAW) 2 WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory 3 WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory 3 WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Laboratory OR 2 WLD 111 Cutting Processes Laboratory (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory 3 TOTAL: 19-20 ARC Welder: WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Laboratory OR 2 WLD 111 Cutting Processes Laboratory (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR 3 WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Laboratory OR (3) WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Laboratory (3) WLD 130 Gas Tungsten Arc Welding (GTAW)</p>	<p>Welder Helper Certificate*</p> <p>Gas Welder Certificate*</p> <p>Arc Cutter Certificate</p> <p>Tack Welder Certificate</p> <p>Production Line Welder Certificate*</p> <p>Arc Welder Certificate*</p> <p>Pipeline Welder Certificate*</p> <p>AWS National Skills Standards Level 1*</p> <p>Shielded Metal Arc Welding Certificate*</p> <p>Gas Metal Arc Welding Certificate*</p> <p>Gas Tungsten Arc Welding Certificate</p> <p>Combination Welding Diploma</p> <p>Associated in Applied Science General Occupational Technical Studies (GOTS)</p> <p>GOTS Degree transfers to University of Louisville</p> <p>Welding Technology Certificates range from 2 – 40 Credit Hours</p> <p>Welding Technology Diploma 47-57 Credit Hours</p> <p>AAS Degree 60-70 Credit Hours</p> <p>See previous page for details on credentials available</p>

Welding Technology List of Courses (* = embedded Certificate)	Career Pathway
<p>2 WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR 3 WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Laboratory (3) WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR 3 WLD 143 Gas Metal Arc Welding (GMAW) Fillet Groove Laboratory (3) WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Laboratory 3 TOTAL: 24-25 Pipeline Welder: WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Laboratory OR 2 WLD 111 Cutting Processes Laboratory (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 130 Gas Tungsten Arc Welding (GTAW) 2 WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Laboratory 3 WLD 220 Welding Certification 2 WLD 221 Welding Certification Laboratory 3 WLD 227 Shielded Metal Arc Welding (SMAW) Pipe Laboratory A 3 WLD 235 Gas Tungsten Arc Welding (GTAW) Pipe Laboratory A 3 WLD 245 Gas Metal Arc Welding (GMAW) Pipe Laboratory A 3 Recommended Electives: WLD 229 Shielded Metal Arc Welding (SMAW) Pipe Laboratory B (3) WLD 237 Gas Tungsten Arc Welding (GTAW) Pipe Laboratory B (3) WLD 247 Gas Metal Arc Welding (GMAW) Pipe Laboratory B (3) WLD 253 Pipe Fitting and Template Development Lab (1) TOTAL: 29-40 AWS National Skills Standards Level I: WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Laboratory OR 2 WLD 111 Cutting Processes Laboratory (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory 3 WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Laboratory OR 3 WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Laboratory (3) WLD 130 Gas Tungsten Arc Welding (GTAW) 2 WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory 3 WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Laboratory 3 WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory 3 WLD 143 Gas Metal Arc Welding (GMAW) Fillet Groove Laboratory 3 WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Laboratory 3 TOTAL: 33-34 Welding Technology Diploma Combination Welder: ENG 101 Writing I OR 3 TEC 200 Technical Communications (3) MT 110 Applied Mathematics OR 3 MT 115 Technical Mathematics OR (3) MT 145 Contemporary College Mathematics OR (3) MT 150 College Algebra (3) Computer Literacy 0-3 General Education Total Credits: 6-9 Required: WLD 100 Oxy-Fuel Systems OR 2 WLD 110 Cutting Processes (2) WLD 101 Oxy-Fuel Systems Lab OR 2 WLD 111 Cutting Processes Lab (3) WLD 120 Shielded Metal Arc Welding (SMAW) 2 WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory 3 WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Lab OR 3 WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Lab (3) WLD 130 Gas Tungsten Arc Welding (GTAW) 2 WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Lab 3 WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Lab 3 WLD 140 Gas Metal Arc Welding (GMAW) 2 WLD 141 Gas Metal Arc Welding (GMAW) Fillet Lab 3 WLD 143 Gas Metal Arc Welding (GMAW) Groove Lab 3 WLD 170 Blueprint Reading for Welding 2 WLD 171 Blueprint Reading for Welding Lab 3 WLD 220 Welding Certification 2 WLD 221 Welding Certification Lab 3 WLD 298 Welding Practicum OR 1-6 WLD 299 Cooperative Work Experience (1-6) Technical Elective 2-3 SUBTOTAL: 41-48 TOTAL: 47-57 *Technical Electives: *This list is not all inclusive. Other courses may be approved at the discretion of</p>	<p>See previous page for details on credentials available</p>

Welding Technology List of Courses (* = embedded Certificate)	Career Pathway
<p>the program coordinator. WPP 200 Workplace Principles 3 WLD 151 Basic Welding A 2 WLD 161 Submerged Arc Welding Lab 1 WLD 181 Advanced Welding Systems Lab 1 WLD 191 Plasma Arc Welding Systems Lab 1 WLD 147 Flux Cored Arc Welding Lab 1 WLD 145 Gas Metal Arc Welding Aluminum Lab 1 WLD 251 Welding Automation Lab 1 WLD 253 Pipe Fitting and Template Development Lab 1 WLD 229 Shielded Metal Arc Welding Pipe Lab B 3 WLD 239 Orbital Tube Welding 1 WLD 240 Materials Technology 2 BEX 100 Basic Electricity for Non-Majors 3 BEX 101 Basic Electricity Lab for Non-Majors 2 FEX 100 Fundamentals of Electricity for Non-Majors 3</p>	

Industrial Maintenance Technology List of Courses (* = embedded Certificate)	Career Pathway
ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE: ENG 101 Writing I 3 MAT 116 Technical Mathematics OR 3 MAT 126 Technical Algebra & Trigonometry (3) Natural Sciences 3 Heritage/Humanities 3 Social/Behavioral Sciences 3 Oral Communications 3 SUBTOTAL: 18 Technical Core: Digital Literacy 3BRX 120 Basic Blueprint Reading OR 3BRX 110 Basic Blueprint Reading for Machinist OR (2)ELT 102 Blueprint Reading (2)FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles Lab OR 2 ELT 110 Circuits I (5) IMT 150 Maintaining Industrial Equipment I 3 IMT 151 Maintaining Industrial Equipment I Lab 2 IMT 220 Industrial Maintenance Electrical Motor Controls I AND 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR 2 EET 270 Electrical Motor Controls I AND (2) EET 271 Electrical Motor Controls I Lab OR (2) ELT 244 Electrical Machinery and Controls OR (4) IMT 120 Industrial Maintenance Rotating Machinery AND (3) IMT 121 Industrial Maintenance Rotating Machinery Lab OR (2) EET 264 Rotating Machinery AND "(2) EET 265 Rotating Machinery Lab (2) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab OR 2 WLD 120 Shielded Metal Arc Welding AND (2) WLD 121 Shielded Metal Arc Welding Fillet Lab OR (3) WLD 152 Basic Welding B (5) IMT 289 Industrial Maintenance Technology Capstone 1 SUBTOTAL: 28-32 Technical Electives*: Eighteen (18) credit hours of electives must be taken from the approved list. This list is not all inclusive. SUBTOTAL: 18 TOTAL: 64-68 Technical Electives List*: ACR 100 Refrigeration Fundamentals 3 ACR 101 Refrigeration Fundamentals Lab 2 ACR 250 Cooling and Dehumidification 3 ACR 251 Cooling and Dehumidification Lab 2 ACR 260 Heating and Humidification 3 ACR 261 Heating and Humidification Lab 2 BRX 210 Mechanical Blueprint Reading for Machinist 2 BRX 230 Mechanical Blueprint Reading 3 CAD 100 Introduction to Computer Aided Design OR 3 Modules CAD 1001 – 1004 (3) COE 199 Cooperative Education 1-8 CAD 150 Introduction to Programming: CAD 4 EES 225 Programmable Logic Controllers 4 EET 148 Electronic Drafting 3 EET 150 Transformers 2 EET 151 Transformers Lab 1 EET 152 Electrical Drafting 2 EET 254 Electrical Construction 3 EET 255 Electrical Construction Lab 4 EET 264 Rotating Machinery 2 EET 265 Rotating Machinery Lab 2 EET 276 Programmable Logic Controllers 2 EET 277 Programmable Logic Controllers Lab 2 ELT 106 Mechanical Engineering Graphics II 2 ELT 122 Mechanical Power Transmission Systems 3 ELT 124 Mechanical Power Transmission Systems Lab 1 ELT 243 Electric Power Distribution 3 ELT 245 Electrical Machinery 3 ELT 250 Programmable Logic Controllers 4 IMT 100 2Welding for Maintenance 3 IMT 101 Welding for Maintenance Lab 2 IMT 115 Maintenance Machining I 2IMT 116 Maintenance Machining I Lab 5 IMT 120 Industrial Maintenance Rotating Machinery 3 IMT 121 Industrial Maintenance Rotating Machinery Lab 2IMT 130 Industrial Maintenance Electrical Concepts 6 IMT 131 Industrial Maintenance Electrical Concepts Lab 4 IMT 150 Maintaining Industrial Equipment 3 IMT 151 Maintaining Industrial Equipment Lab 2 IMT 198 Practicum 1-8 IMT 199 Cooperative Education 1-8 IMT 220 Industrial Maintenance Electrical Motor Controls I 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab 2 IMT 230 Industrial Maintenance of PLCs 5 IMT 231 Industrial Maintenance of PLCs Lab 2 IMT 240 Industrial Maintenance Motor Control Concepts 6 IMT 241 Industrial Maintenance Motor Control Concepts Lab 4 IMT 250 Maintaining Industrial Equipment II 2IMT 251 Maintaining Industrial Equipment II Lab 3IMT 280 Advanced Programmable Logic Controllers 3 IMT 281 Advanced Programmable Logic	Industrial Maintenance Mechanic Level II Certificate*
	Electro-Hydraulic Technician Certificate
	Industrial Maintenance Robotics Technician Certificate*
	Industrial maintenance Electrical Mechanic Technician Certificate*
	Industrial Maintenance Machinists Mechanic Technician Certificate*
	Industrial Maintenance Technician Diploma

Industrial Maintenance Technology List of Courses (* = embedded Certificate)	Career Pathway
<p> Controllers Lab 2 IMT 290 Special Problems 1 IMT 289 Industrial Maintenance Technology Capstone 1 IMT 200 Industrial Robotics and Robotic Maintenance 4 ISX 101 Introduction to Industrial Safety 3 ISX 100 Industrial Safety 3 MCX 100 Electrical Motor Controls I 3 MCX 101 Electrical Motor Controls I Lab 2 MCX 110 Electrical Motor Controls II 3 MCX 111 Electrical Motor Controls II Lab 2 MCX 150 Motor Controls 3 MCX 151 Motor Controls Lab 2 MGX 220 Rotating Machinery 3 MGX 221 Rotating Machinery Lab 2 CMM 110 Fundamentals of Machine Tools-A 3 CMM 112 Fundamentals of Machine Tools-B 4 CMM 114 Fundamentals of Machine Tools 7 CMM 120 Applied Machining I 3 CMM 122 Applied Machining II 4 CMM 124 Applied Machining 7 CMM 224 Advanced Industrial Machining 5 PLB 150 Plumbing, Introduction to the Trade 3 PLB 151 Basic Plumbing Skills 3 PHS 175 Applied Physics 6 PHX 150 Introductory Physics 3 PMX 100 Precision Measurement 3 WLD 123 Shielded Metal Arc Welding Groove Welds with Backing Lab 3 WLD 100 Oxy-Fuel Systems 2 WLD 101 Oxy-Fuel Systems Lab 2 WLD 151 Basic Welding A 2 ITS 211 Manufacturing Processes 3 MST 200 Advanced Hydraulic Systems 3 MST 201 Advanced Hydraulic Systems Lab 2 MST 204 Advanced Pneumatic Systems 3 MST 205 Advanced Pneumatic Systems Lab 2 Fluid Power Mechanic: FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) MST 200 Advanced Hydraulic Systems AND 3 MST 201 Advanced Hydraulic Systems Lab OR 2 MST 204 Advanced Pneumatic Systems AND (3) MST 205 Advanced Pneumatic Systems Lab (2) TOTAL: 8-10 Industrial Maintenance Machinists Mechanic: BRX 120 Basic Blueprint Reading OR 3 BRX 110 Basic Blueprint Reading for Machinist OR (2) BRX 112 Blueprint Reading for Machinist OR (4) ELT 102 Blueprint Reading (2) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab OR 2 WLD 120 Shielded Metal Arc Welding AND (2) WLD 121 Shielded Metal Arc Welding Fillet Lab OR (3) WLD 152 Basic Welding B (5) IMT 115 Maintenance Machining I AND 2 IMT 116 Maintenance Machining I Lab OR 5 CMM 114 Fundamentals of Machine Tools OR (7) CMM 110 Fundamentals of Machine Tools -A AND (3) CMM 112 Fundamentals of Machine Tools -B (4) IMT 150 Maintaining Industrial Equipment I 3 IMT 151 Maintaining Industrial Equipment I Lab 2 TOTAL: 19-21 Industrial Maintenance Electrical Mechanic: FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles Lab OR 2 ELT 110 Circuits I (5) IMT 220 Industrial Maintenance Electrical Motor Controls I AND 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR 2 EET 270 Electrical Motor Controls I AND (2) EET 271 Electrical Motor Controls I Lab OR (3) ELT 244 Electrical Machinery and Controls OR (4) IMT 120 Industrial Maintenance Rotating Machinery AND (3) IMT 121 Industrial Maintenance Rotating Machinery Lab OR (2) EET 264 Rotating Machinery AND (2) EET 265 Rotating Machinery Lab OR (2) IMT 280 Advanced Programmable Logic Controllers AND (3) IMT 281 Advanced Programmable Logic Controllers Lab OR (2) EET 276 Programmable Logic Controllers AND (2) EET 277 Programmable Logic Controllers Lab (2) TOTAL: 12-15 Industrial Maintenance Mechanic Level I: FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles OR 2 ELT 110 Circuits I (5) IMT 150 Maintaining Industrial Equipment I 3 IMT 151 Maintaining Industrial Equipment I Lab 2 TOTAL: 13-15 Industrial Maintenance Mechanic Level II: BRX 120 Basic Blueprint Reading OR 3 BRX 110 Basic Blueprint Reading </p>	

Industrial Maintenance Technology List of Courses (* = embedded Certificate)	Career Pathway
<p>for Machinist OR (2) BRX 112 Blueprint Reading for Machinist OR (4) ELT 102 Blueprint Reading (2) FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles OR 2 ELT 110 Circuits I (5) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab OR 2 WLD 120 Shielded Metal Arc Welding AND (2) WLD 121 Shielded Metal Arc Welding Fillet Lab OR (3) WLD 152 Basic Welding B (5) IMT 115 Maintenance Machining I AND 2 IMT 116 Maintenance Machining I Lab OR 5 CMM 114 Fundamentals of Machine Tools OR (7) CMM 110 Fundamentals of Machine Tools-A AND (3) CMM 112 Fundamentals of Machine Tools-B (4) TOTAL: 22-26 Electro-hydraulic Technician: IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles Lab OR 2 ELT 110 Circuits I (5) FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) MST 206 Electro-hydraulic 3 MST 207 Electro-hydraulic Lab 2 TOTAL: 13-15 Chemical Operator: CHE 140 Introductory General Chemistry 3 CHE 145 Introductory General Chemistry Lab 1 GEC 276 Employment and Professional Skills 1 IMT 140 Industrial Mechanics 3 IMT 141 Industrial Mechanics Lab 1 ITE 250 Team Dynamics and Problem Solving 3 ISX 100 Industrial Safety 3 MAT 116 Technical Mathematics 3 PHX 150 Introduction to Physics 3 QMS 101 Introduction to Quality Systems 3 TEC 200 Technical Communications 3 Computer Literacy 0-3 TOTAL: 27-30 Presswork and Die Maintenance Technician Level I: IMT 115 Maintenance Machining I AND 2 IMT 116 Maintenance Machining I Lab OR 5 CMM 114 Fundamentals of Machine Tools OR (7) CMM 110 Fundamentals of Machine Tools-A AND (3) CMM 112 Fundamentals of Machine Tools-B (4) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab 2 IMT 260 Presswork and Die Maintenance 7 TOTAL: 19 Presswork and Die Maintenance Technician Level II: IMT 115 Maintenance Machining I AND 2 IMT 116 Maintenance Machining I Lab OR 5 CMM 114 Fundamentals of Machine Tools OR (7) CMM 110 Fundamentals of Machine Tools-A AND (3) CMM 112 Fundamentals of Machine Tools-B (4) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab 2 IMT 260 Presswork and Die Maintenance 7 FPX 100 Fluid Power 3 FPX 101 Fluid Power Lab 2 IMT 110 Industrial Maintenance Electrical Principles 3 IMT 111 Industrial Maintenance Electrical Principles Lab 2 IMT 220 Industrial Maintenance Electrical Motor Controls I 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab 2 TOTAL: 34 Industrial Maintenance Robotics Technician: IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles Lab OR 2 ELT 110 Circuits I (5) FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 220 Industrial Maintenance Electrical Motor Controls I AND 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR 2 EET 270 Electrical Motor Controls I AND (2) EET 271 Electrical Motor Controls I Lab OR (2) ELT 244 Electrical Machinery and Controls OR (4) IMT 120 Industrial Maintenance Rotating Machinery AND (3) IMT 121 Industrial Maintenance Rotating Machinery Lab OR (2) IMT 280 Advanced Programmable Logic Controllers AND 3 IMT 281 Advanced Programmable Logic Controllers Lab OR 2 EET 276 Programmable Logic Controllers AND (2) EET 277 Programmable Logic Controllers Lab (2) IMT 150 Maintaining Industrial Equipment I 3 IMT 151 Maintaining Industrial Equipment I Lab. 2 IMT 200 Industrial Robotics and Robotic Maintenance 4 TOTAL: 24-29 Industrial Maintenance Technician Diploma: General Education: Area 1 Written Communication, Oral Communications, or</p>	

Industrial Maintenance Technology List of Courses (* = embedded Certificate)	Career Pathway
<p>Heritage/Humanities 3 Area 2 MAT 116 Technical Mathematics or MAT 126 Technical Algebra & Trigonometry (3) SUBTOTAL: 6</p> <p>Technical Core: Digital Literacy 3 BRX 120 Basic Blueprint Reading OR 3 BRX 110 Basic Blueprint Reading for Machinist (2) ELT 102 Blueprint Reading (2) FPX 100 Fluid Power AND 3 FPX 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power (3) IMT 110 Industrial Maintenance Electrical Principles AND 3 IMT 111 Industrial Maintenance Electrical Principles Lab OR 2 ELT 110 Circuits I (5) IMT 150 Maintaining Industrial Equipment I AND 3 IMT 151 Maintaining Industrial Equipment I Lab 2 IMT 220 Industrial Maintenance Electrical Motor Controls I AND 3 IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR 2 EET 270 Electrical Motor Controls I AND (2) EET 271 Electrical Motor Controls I Lab OR (2) ELT 244 Electrical Machinery and Controls OR (4) IMT 120 Industrial Maintenance Rotating Machinery AND (3) IMT 121 Industrial Maintenance Rotating Machinery Lab OR (2) EET 264 Rotating Machinery AND (2) EET 265 Rotating Machinery Lab (2) IMT 100 Welding for Maintenance AND 3 IMT 101 Welding for Maintenance Lab OR 2 WLD 120 Shielded Metal Arc Welding AND (2) WLD 121 Shielded Metal Arc Welding Fillet Lab OR (3) WLD 152 Basic Welding B (5) IMT 289 Industrial Maintenance Technology Capstone 1 SUBTOTAL: 28-32 Technical Electives*: Fifteen (15) credit hours of electives must be taken from the approved list. This list is not all inclusive. SUBTOTAL: 15 TOTAL: 49-53</p>	

E.1.f Transferable and Portable Credits and Credentials

All credentials offered, certificates, diplomas, and degrees will be portable and all KCTCS credit will transfer to any Kentucky public postsecondary institution. Jefferson Community and Technical College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award the associate degree. Accreditation is intended to assure constituents and the public of the quality and integrity of higher education institutions and programs, and to help those institutions and programs improve. These outcomes are achieved through rigorous internal and external review processes during which the institution is evaluated against a common set of standards. When accreditation is awarded to an institution of higher education it means that the institution has (1) a mission appropriate to higher education, (2) resources, programs, and services sufficient to accomplish and sustain its mission, (3) clearly specified educational objectives that are consistent with its mission and appropriate to the degrees it offers, and that it is (4) successful in assessing its achievement of these objectives and demonstrating improvements. Accreditation by SACSCOC is a statement of the institution's continuing commitment to integrity and its capacity to provide effective programs and services based on agreed-upon accreditation standards. *(From the Southern Association of Colleges and Schools Commission on Colleges)*

E.1.g-h Secondary Students Receiving Dual Credit and Estimated Cost for Participants

A revised Memorandum of Agreement with Jefferson Community and Technical College - Shelby Campus will accompany The IGNITE Initiative. This MOA will allow students in The IGNITE Initiative to attain a minimum of 18 credit hours prior to graduation from high school.

The tables that follow indicate the specific pathways for high school students prescribed in each targeted Industry Sector to receive Dual Credit. Tables are in ***DRAFT*** form and indicate the most aggressive dual credit opportunities available in each area. Specific course offerings will be determined on a high school by high school basis in cooperation with Shelby County Public Schools and Eminence Independent Schools. *Dual Credit cost are calculated as follows: Note: **Student Cost** - current Dual Credit student pays 1/3 published tuition rate per credit hour; **Cost to JCTC** - college waives 2/3 of the cost per credit hour for Dual Credit students; **JCTC Actual Cost** is based on calculated full cost to deliver courses as per total college budget.*

Industrial Maintenance Technology (IMT)								
School(s) with current IMT pathway	9th Grade	10 th Grade	11 th Grade	12 th Grade	Industry Certification	Total College Credit in High School	JCTC Credentials	Bachelor's Degree Pathway
Shelby County ATC Shelby County High School Martha Layne Collins High School Eminence Independent Spencer County High School	JCTC Course: GEN140 Leadership Development or WPP 200 Workplace Principles or FYE 105 First Year Experience or CIT 105 Introduction to Computers (all courses are 3 credit hours)	JCTC Course: BRX 120 Basic Blueprint (3 credit hours)	JCTC Course: ELT 110 Circuits I (5 credit hours) Or IMT 110/111 (Industrial Maintenance Electrical Principles) (5 credit hours)	JCTC Course: IMT150 Maintaining Industrial Equipment (3 credit hours) IMT 151 (lab) (2 credit hours) FPX100/101 Applied Fluid Power (3-5 hours)	Certified Production Technician	19 hours of college credit in high school Awarded JCTC Certificate: Industrial Maintenance Electrical Mechanic Level I	Certificates: Industrial Maintenance Electrical Mechanic Level I (13 hours) Industrial Maintenance Machining Mechanic Diploma: Industrial Maintenance Technician AAS degree: Industrial Maintenance Technology	University of Louisville Degree Organizational Leadership and Learning Note: JCTC currently has pathway for Associate Degree technical programs
Student Cost* *Based on current Dual Credit cost	\$156	\$156	\$260	\$156 - \$260		19 hours at 1/3 cost (\$52.00 credit hour) = \$988 per student		
Cost to JCTC @ \$104 per cr hr.	\$312	\$312	\$520	\$208 - \$1040		*19 hours @ \$104 credit hour) = \$1976per student		
JCTC Actual cost @ \$254 per cr hr.	\$762	\$762	\$1,270	\$762 - \$1,270		*19 hours @ \$254 cr hour = \$4826		

Engineering and Electronics Technology								
School(s) with current Engineering and Electronics Pathway	9th Grade	10 th Grade	11 th Grade	12 th Grade	Industry Certification	Total College Credit in High School	JCTC	Bachelor's Degree Pathway
Shelby County ATC Shelby County High School Martha Layne Collins High School Eminence Independent Spencer County High School	JCTC Course: GEN140 Leadership Development or WPP 200 Workplace Principles or FYE 105 First Year Experience or CIT 105 Introduction to Computers (all courses are 3 credit hours)	JCTC Course: BRX 120 Basic Blueprint (3 credit hours)	JCTC Course: ELT 110 Circuits I (5 credit hours)	JCTC Course: ELT114 Circuits II (5 credit hours) Or ELT 210 Devices I (4 credit hours)	Autodesk Inventor Certified User	16 hours of college credit in high school	Certificates: Electronics Technician (24 hours) Maintenance Technician (24 hours) Robotics and Automation Technician (36 hours) Industrial Electronics Technician I and II (17 and 33 hours) AAS degree: Engineering and Electronics Technology (60 hours)	University of Louisville Degree Organizational Leadership and Learning Note: JCTC currently has pathway for Associate Degree technical programs
Student Cost* *Based on current Dual Credit cost	\$156	\$156	\$260	\$208-\$260		*16 hours at 1/3 costs (\$52.00 credit hour) = \$832.00		
Cost to JCTC @ \$104 per cr hr.	\$312	\$312	\$520	\$416 - \$520		*16 hours at 2/3 cost (\$52.00 credit hour) = \$1,664.00		
JCTC Actual cost @ \$254 per cr hr.	\$762	\$762	\$1,270	\$1,016 \$1,270		16 x 254 = \$4,064		

Computerized Machining/Machine Tool Technology								
School(s) with current Machining Pathway	9th Grade	10 th Grade	11 th Grade	12 th Grade	Industry Certification	Total College Credit in High School	JCTC	Bachelor's Degree Pathway
Shelby County ATC Shelby County High School Martha Layne Collins High School Eminence Independent Spencer County High School	JCTC Course: GEN140 Leadership Development or WPP 200 Workplace Principles or FYE 105 First Year Experience or CIT 105 Introduction to Computers (all courses are 3 credit hours)	JCTC Course: CMM110: Fundamental s of Machine Tools A (3 credit hours)	JCTC Course: CMM 112: Fundamentals of Machine Tools B (3 credit hours) BRX 110: Basic Blueprint for Machinist (3 credit hours)	JCTC Course: Two courses to complete Exploratory Machining Certificate (estimated 7 hours)	NIMS-Machine Tool Certification (Level I)	19 hours of college credit in high school Awarded JCTC Certificate: Exploratory Machining Certificate (11 hours)	Certificates: Exploratory Machining Certificate (11 hours) Machine Tool Operator I (15 hours) Machine Tool Operator II (23 hours) CNC Operator (56 hours) Tool and Die Apprentice (29 hours) Diploma: Computerized Manufacturing and Machining (56 hours) Machinist (41 hours)	University of Louisville Degree Organizational Leadership and Learning Note: JCTC currently has pathway for Associate Degree technical programs
Student Cost* *Based on current Dual Credit cost	\$156	\$156	\$312	\$156 - \$520		*19 hours at 1/3 cost (\$52.00 credit hour) = \$988.00 per student		
Cost to JCTC @ \$104 per cr hr.	\$312	\$312	\$624	\$728		*19 hours @ \$104 = \$1976 per student		
JCTC Actual cost @ \$254 per cr hr.	\$762	\$762	\$762	\$1,778		\$4,826 per student		

Welding Technology								
School(s) with current Machining Pathway	9th Grade	10 th Grade	11 th Grade	12 th Grade	Industry Certification	Total College Credit in High School	JCTC	Bachelor's Degree Pathway
Shelby County High School Martha Layne Collins High School Eminence Independent Spencer County High School	JCTC Course: GEN140 Leadership Development or WPP 200 Workplace Principles or FYE 105 First Year Experience or CIT 105 Introduction to Computers (all courses are 3 credit hours)	JCTC Courses: WLD140/141 Shielded Metal Arc Welding (5 credit hours)	JCTC Course: WLD 120/121 Gas Metal Arc Welding (5 credit hours)	JCTC Course: WLD170/171 Blueprint Reading for Welding with Lab (5 credit hours)	AWS-Sense Certification (Level I) Or 2-F (AWS) Qualification Certification Or Kentucky Department of Transportation Certification (Part I and 2) SMAW or GMAW	18 hours of college credit in high school Awarded JCTC Certificates: Tack Welder (7 hours) Welding Helper (2 hours)	Certificates: Welder Helper (2 hours) Gas Welder (4 hours) ARC Cutter (5 hours) Tack Welder (7 hours) Production Line Welder (19 hours) ARC Welder (24 hours) Pipeline Welder (29 hours) AWS National Skills Standards Level I (33 hours) Shielded Metal Arc Welding (17 hours) Gas Metal Arc Welding (15 hours) Gas Tungsten Arc Welding (17 hours) Diploma: Combination Welder AAS degree: Welding Technology (60 credit hours)	University of Louisville Degree Organizational Leadership and Learning Note: JCTC currently has pathway for Associate Degree technical programs
Student Cost* *Based on current Dual Credit cost	\$156	\$260	\$260	\$260		*18 hours at 1/3 costs (\$52.00 credit hour) = \$936.00		
Cost to JCTC @ \$104 per cr hr.	\$312	\$520	\$520	\$520		*18 hours at 2/3 cost (\$52.00 credit hour) = \$1,976.00		
JCTC Actual cost @ \$254 per cr hr.	\$762	\$1,270	\$1,270	\$1,270		18 x 254 = \$4,572		

E.1.i Hours of Operation

- The Shelby County Area Technology Center will offer dual credit for secondary students from 8:00 AM to 3:30 PM each day.
- The Shelby County Area Technology Center will be available for Shelby County Associated Industries and JCTC - Shelby to use from 4:00 PM to 10:00 PM each day and on Saturdays from 8:00 AM to 10:00 PM as needed.
- The JCTC-Shelby County Campus will be available for college courses and training from the hours of 8:00 AM to 10:00 PM Monday through Friday as needed.

Attachment F: Marketing

Overview:

The excitement of IGNITE lies in the communication to stakeholders that it's a new day in Advanced Manufacturing. The following ideas are how we will promote the opportunities in the region:

F.1 Marketing and Expenses by Year

2017	<ul style="list-style-type: none">● Personalized Scheduling with Counselors already occurring.	\$500
	<ul style="list-style-type: none">● 8th Grade Career Explorations Class Tour of Advanced Manufacturing Industry in the Region. Transportation.	\$1200
	<ul style="list-style-type: none">● Hosting VEX Robotics Tournaments at High Schools in the Region. Judges, Custodial, Facility Usage	
	<ul style="list-style-type: none">● Hosting SkillsUSA Competitions in the Region	
	<ul style="list-style-type: none">● Regional Marketing of Training Consortium courses to existing industry – both those already in the training consortium and to those eligible but not currently members of the consortium. Mailings, Electronic Media, Visits, etc.	\$4000
	<ul style="list-style-type: none">● Businesses set up table top displays during lunch or other times at high schools showing what they make/do, positions in their company, pay scale, etc. Spotlight one business each week.	\$2000
	<ul style="list-style-type: none">● Career fair at the middle & high schools. Similar to college fair, but specific to businesses.	\$1000
	<ul style="list-style-type: none">● Regional Manufacturing Day – similar to the Good Neighbor Farm Tour. Multiple manufacturers hold an open house on one day that is open to the public for students, parents, teachers, potential employees to learn about manufacturing opportunities available.	\$2000
	<ul style="list-style-type: none">● Regional Career Technical Student Organization Leadership Conference hosted by Associated Industries. Facility Rental, Food, T-Shirts, Guest Speakers, etc.	\$3000
	<ul style="list-style-type: none">● Co-op fair for juniors and seniors interested in internships and co-ops. Held prior to scheduling and possibly do on-site interviews. Participating companies would have co-op positions for students the following semester/year.	\$250
	<ul style="list-style-type: none">● Industry Tour – Conducted in the fall with teachers, counselors, etc. Transportation, Food, etc.	\$1500
	2016-2017 Total	\$15,450

2017-2018	Adding these items to the previous year: <ul style="list-style-type: none"> • Commercials on local radio broadcasts of sporting events. Production and Air-Time costs. • Entrepreneurial Challenge in the Region <div>2017-2018 Total</div>	\$15,000 \$30,450
2018-2019	Adding these items to the previous year: <ul style="list-style-type: none"> • Summer Teacher Externships or Manufacturing Bootcamp • Four 1 week externships per summer paying teachers \$100 per day. <div>2018-2019 Total</div>	\$2000 \$32,450
2019-2020	Adding these items to the previous year: <ul style="list-style-type: none"> • Create and Promote Virtual Tours to Industry – Similar to GE’s video tour <div>2019-2020 Total</div>	\$500 \$32,950
	Projected Marketing Total	\$111,300

Overview

G.1 Five Year Financial Plan

Shelby County Public Schools

	Yr 1	Yr2	Yr3	Yr4	Yr5
Expenses					
KDE Staffing	\$798,936	\$802,935	\$806,935	\$810,935	\$814,935
LEA Staffing*	\$149,434	\$246,928	\$249,398	\$251,892	\$254,411
Operations*	\$91,000	\$91,000	\$91,000	\$91,000	\$91,000
Debt Service*	\$86,167	\$173,091	\$171,691	\$170,291	\$168,890

**Paid for by the Local Education Agency. We will add additional teacher and custodian.*

Revenue

KDE/CTE Revenue					
	\$91,572	\$91,572	\$91,572	\$91,572	\$91,572
General Fund					
	\$235,029	\$419,447	\$420,517	\$421,611	\$422,729

Jefferson Community and Technical College

SHELBY COUNTY PROPOSAL - 5 YEAR FINANCIAL PLAN

ESTIMATED INCREASE IN TUITION AND OTHER SOURCES

	# of students	1/3 of tuition of 3 CH course	Year 1 Estimated Tuition Revenue	Year 2 Estimated Tuition Revenue	Year 3 Estimated Tuition Revenue	Year 4 Estimated Tuition Revenue	Year 5 Estimated Tuition Revenue
IMT enrollment - dual credit (average 1.5 courses per student)	20	156	\$4,680	\$4,680	\$4,680	\$4,680	\$4,680
CMM enrollment - dual credit (average 1.5 courses per student)	20	156	\$4,680	\$4,680	\$4,680	\$4,680	\$4,680
Welding enrollment - dual credit (average 1.5 courses per student)	20	156	\$4,680	\$4,680	\$4,680	\$4,680	\$4,680
TOTAL			\$14,040	\$14,040	\$14,040	\$14,040	\$14,040

	# of students	3 CH course tuition	Year 1 Estimated Tuition Revenue	Year 2 Estimated Tuition Revenue	Year 3 Estimated Tuition Revenue	Year 4 Estimated Tuition Revenue	Year 5 Estimated Tuition Revenue
IMT enrollment increase - college level full tuition	15	468	\$7,020	\$7,020	\$7,020	\$7,020	\$7,020
CMM enrollment increase - college level full tuition	10	468	\$4,680	\$4,680	\$4,680	\$4,680	\$4,680
Welding enrollment increase - college level full tuition	20	468	\$9,360	\$9,360	\$9,360	\$9,360	\$9,360
TOTAL			\$21,060	\$21,060	\$21,060	\$21,060	\$21,060

(Does not include potential increases in tuition rate) **TOTAL REVENUE** **\$35,100** **\$35,100** **\$35,100** **\$35,100** **\$35,100**

ESTIMATED INCREASE IN OPERATING COSTS

IMT Adjunct cost for two semesters	\$3,462	\$3,462	\$3,462	\$3,462	\$3,462
CMM Adjunct cost for two semesters	\$3,462	\$3,462	\$3,462	\$3,462	\$3,462
2 Welding Adjunct cost for two semesters	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924
	\$13,848	\$13,848	\$13,848	\$13,848	\$13,848
IMT Lab assistant - 20 hours/week @ \$10.00/hour	\$6,400	\$6,400	\$6,400	\$6,400	\$6,400
CMM lab assistant - 20 hours/week @ \$10.00/hour	\$6,400	\$6,400	\$6,400	\$6,400	\$6,400
Welding lab assistants - 2 at 20 hours/week @ \$10.00 per hour	\$12,800	\$12,800	\$12,800	\$12,800	\$12,800
TOTAL EXPENSES	\$26,648	\$26,648	\$26,648	\$26,648	\$26,648
NET REVENUE	\$8,452	\$8,452	\$8,452	\$8,452	\$8,452

Jefferson Community & Technical College will be funded through tuition and fee revenue as outlined above. The college presently operates the Shelby County Campus, the expansion and rehabilitation included in this project, along with the purchase of additional equipment, will be owned, operated, and maintained by the JCTC faculty and staff. The projected cost of additional faculty to cover the additional courses that will be possible under this project is included in the financial plan provided in this section.

G.2 Recruit and Credential Instructors

Associated Industries

When training is needed by a particular set of industry partners, the Workforce Development Coordinator is contacted and they begin searching for someone to conduct the training. With a more permanent facility, instructors will more readily access the training tools needed. When possible, Associated Industries will contract current instructors at the Shelby County Area Technology Center, Jefferson Community and Technical College and instructors from other state colleges and universities to teach the evening courses.

Shelby County Area Technology Center

Faculty in Kentucky's Area Technology Centers hold a degree and significant work experience in the area in which they are teaching or the equivalent, which may be another combination of experience, education, and industry-recognized certifications. The school district advertises for all new and replacement faculty positions. Candidates are recommended and interviewed by the administration at the Area Technology Center. Final candidates are approved by the Superintendent of Schools in Shelby County, Kentucky. Local industries have also agreed to provide co-teachers and seminar presenters as well as instructors for the evening courses offered at the Area Technology Center.

Eminence Independent Schools

Eminence will continue to recruit faculty with appropriate certifications. New positions will be advertised appropriately. Candidates will be recommended and interviewed by the administration at Eminence Independent Schools. Final selections are approved by the Superintendent. Local industries have agreed to provide co-teachers and presents as well as mentors for the middle school students.

Jefferson Community and Technical College - Shelby Campus

Many faculty who will teach in programs located in the JCTC - Shelby Campus are already employees of the college. As programs and program capacity grows, the college will recruit new faculty from among academic, business, and industry ranks who possess the qualifications to teach in the program and meet faculty qualifications as specified by the college's accrediting agency, the Southern Association of Colleges and Schools. Generally, faculty in technical programs hold a bachelor degree and significant work experience in the area in which they are teaching or the equivalent, which may be another combination of experience, education, and industry-recognized certifications. The college advertises for all new and replacement faculty positions. Candidates are recommended and interviewed by a search committee composed primarily of faculty and academic division leadership, and final candidates are approved by the Vice President for Academic and Student Affairs and the President.

G.3 Responsibility for Project Facility Maintenance

Shelby County Area Technology Center

Shelby County Public Schools is responsible for the upkeep and maintenance of the Area Technology Center grounds, building, equipment and furnishings. This will also be true for the additional equipment proposed in this project.

Jefferson Community and Technical College - Shelby

Jefferson Community and Technical College is responsible for the upkeep and maintenance of the Shelby County Campus grounds, building, equipment and furnishings. This will also be true for the additional equipment, dry storage building, and the building addition proposed in this project.

Eminence Independent Schools

Eminence Independent Schools is responsible for the upkeep and maintenance of the Eminence Engineering Campus grounds, building, equipment, and furnishings. This will also be true for the additional equipment furnishings proposed in this project.

G.4 Project Timeline

Shelby County Area Technology Center

General Timeline Shelby County Area Technology Center Design/Bid/Equip	
January 2017	Education, Industry and Community Partners determine desired attributes of equipment needed to have the best Advanced Manufacturing Program in the State
February 2017	Procurement for equipment for programs
August 2017	Doors Open
November 2017	Fully Functional Programs listed in The IGNITE Project at the Shelby County Area Technology Center

Jefferson Community and Technical College - Shelby County Campus
General Timeline Alternative #1
Design/Bid/Build

(based on estimates for new construction projects with KCTCS and KY Division of Engineering)

January 2017	Internal and External stakeholders determine desired attributes, experience, etc. for firm that will design the building. Immediately upon notification of award
January 2017	Advertise for Design Services advertised minimum of 30 days. Selection committee is named in the interim
February/March 2017	Review proposals, conduct interviews, award contract – estimated 60 days Design firm is on contract and ready to begin work
April-June 2017	Phase A Design – information gathering from Internal and External stakeholders, including review of proposed layouts, conceptual design, evaluation of functional areas, gathering input from end users all along the way; finalize building design – estimated 3 months
July – August 2017	Phase B Construction Design estimated 60 days
September 2017	Phase C Producing bid documents – estimated 30 days
October/November 2017	Bid Advertised, Pre-Bid Conference, Bid Opening – estimated 60 days
December 2017/May 2018	Construction Begins – contractor has up to 30 days to submit all documents to the state to begin work and then mobilize their crews Construction period – estimated 6 months minimum. Pushes building opening to Fall 2018/most likely Spring 2019

Eminence Independent Schools

General Timeline Eminence Middle Engineering Program Design/Bid/Renovate/Equip	
January 2017	Education, Industry and Community Partners determine desired attributes of equipment needed
February 2017	Architect will finish design of drawings with schematics and procurement of equipment will begin
April 2017	Renovation of building will begin with a May completion
June 2017	Staff training for course implementation will take place
August 2017	Fully functional Middle IGNITE is open and operational

G.5 Demonstrate Experience and Success for Training, Upkeep and Construction

Local Industry Leadership

For the past four years, over half of the industry in Shelby County has joined Associated Industries. In that time, [Associated Industries has used matching grants from the Bluegrass State Skills Initiative](#) (video) to offset training costs for members. With the facility, marketing and increased training opportunities, local industries project a growth in membership and employees trained. Proven experience in cost effective facility procurement and construction is a hallmark of industry leaders in the region. They have the knowledge and experience to design and prepare optimal space for employee training.

Shelby County Public Schools

Several recent projects including Southside Elementary School, The Blair Center, and Martha Layne Collins High School have demonstrated the capacity to build 21st Century innovative facilities within budget. The expansion and renovation occurring at The Area Technology Center is intended to create the finest Career and Technical Education Training Center in the State of Kentucky.

Eminence Independent Schools

The most recent project is the new six million dollar Edhub. The Edhub is pushing the boundaries on what the future of schools will look like and is being heralded as a model site for innovation. Eminence has also renovated every inch of their facility to modernize and meet the needs of 21st Century Learners.

Jefferson Community and Technical College

Jefferson Community & Technical College, established originally as Jefferson Community College in 1968, has a strong history of providing high quality, low cost general and technical education to individuals in the Louisville labor market

area and has operated a campus in Shelby County since 2001. The college offers maximum flexibility by offering short-term industry training to meet the needs of business and industry along with traditional coursework. Dual credit agreements with school districts in the region are offered in every school district and Area Technology Center in our labor market area, along with a history of developing innovative, responsive and successful programs for high school students for Early College and Middle College models.

H.1 The Need for New Construction

A strength of IGNITE is action. Local leaders have been working collectively to respond to the need of industry in the region for quite some time. In early 2016, Dr. Ty Handy met with industry, community and education leaders in Shelby to address the need for expansion and improvement at JCTC-Shelby. Shelby County Public Schools has already begun expansion and renovation of the Shelby County Area Technology Center to offer Welding Technology and Diesel Technology instruction in addition to the Industrial Maintenance and Computerized Machining and Manufacturing programs. Eminence Independent Schools has already purchased the facility adjacent to their school. The only new construction proposed in IGNITE is needed at Jefferson Community and Technical College.

JCTC operates Industrial Maintenance and Computerized Machining and Manufacturing Technology programs at the Shelby County Campus. **These programs are operating at capacity.** Facilities are restrictive in that, only standard sized classrooms are available to the programs for instruction, limiting the types of equipment that can be used and the number of student workstations. The college does not have a space designed to deliver Welding instruction under roof. The welding class at JCTC-Shelby, required as part of industrial maintenance, is actually conducted outside each fall. Space at the campus that is currently used for storage is the ideal place to provide room for the IMT and CMM programs to grow. Construction of a lower cost, dry storage facility will free space in the main building for its best use for instruction. Additional computerized classrooms are needed to provide adequate room for instruction in manufacturing-related courses. The cost of equipment and availability of the required physical space all impact overall course capacity. Equipment for industrial maintenance, and computerized machining and manufacturing is expensive, as a result there are limited college resources available to expand the capacity without an influx of external funding.

To best leverage resources, JCTC-Shelby will partner with Shelby County Public Schools to provide college level welding instruction at The Shelby County Area Technology Center in the evening. The proximity of this location is optimal. Programming for Welding will be based solely on the adult demand for programming.

I.1.a-h Data to be Collected and Reported

Administration from all partners will work together to collect and report the effects of IGNITE twice a year. Reports on enrollment, completion percentages, retention from semester to semester and fall to fall (i.e. continued enrollment), credentials and degrees awarded by program area are all part of the regular data mining performed by the Shelby County Area Technology Center and Jefferson Community and Technical College each semester. The Shelby County Workforce Development Coordinator and Shelby County Associated Industries will track and report trainings completed, internship placement, job placement, and job retention at six months.

Currently, a committee of industry leaders, local government leaders and educational leaders meet quarterly to review the scope and sequence of work completed by the Workforce Development Coordinator. The numbers listed in paragraph one of this section will be shared at second and fourth meetings of this committee, henceforth known as IGNITE. After the first read by the committee, the information will be submitted to the appropriate entity at the state level.

As a recipient of federal grant funds from the Carl D. Perkins Career and Technical Education Act, every technical program routinely incorporates skills assessments. Scores are gathered and will be reported by program and delineated by student group (dual credit high school students and adults). Additional data is collected from TEDS (Technical Education Database System), the official repository of student data for all Secondary and Postsecondary career/technical programs taught in Kentucky. TEDS gathers information on the Performance Measures as delineated by Kentucky's State Plan for Perkins grant, including these four major areas:

1. Academic and technical skill achievement
2. Attainment of secondary school diploma
3. Placement in, retention in, and completion of postsecondary education, military service or employment
4. Participation on nontraditional Career and Technical Education program that lead to nontraditional training and employment



Economic Overview

30 mile radius of Shelby County



DEMOGRAPHIC PROFILE	125
EMPLOYMENT TRENDS	127
UNEMPLOYMENT RATE	127
WAGE TRENDS	128
COST OF LIVING INDEX.....	128
INDUSTRY SNAPSHOT	129
OCCUPATION SNAPSHOT	131
INDUSTRY CLUSTERS.....	133
EDUCATION LEVELS.....	134
REGION DEFINITION	134
FAQ.....	136

Demographic Profile

In 2015, the population in the 30 mile radius of Shelby County was 1,393,494. Between 2005 and 2015, the region's population grew at an annual average rate of 0.9%.

The region has a civilian labor force of 703,567 with a participation rate of 65.2%. Of individuals 25 to 64 in the 30 mile radius of Shelby County, 28.5% have a bachelor's degree or higher which compares with 30.9% in the nation.

The median household income in the 30 mile radius of Shelby County is \$50,581 and the median house value is \$149,409.

Summary ¹						
	Percent			Value		
	30 mile radius of Shelby County	Shelby County, Kentucky	USA	30 mile radius of Shelby County	Shelby County, Kentucky	USA
Demographics						
Population ²	—	—	—	1,393,494	45,632	321,418,820
Population Annual Average Growth ²	0.9%	1.9%	0.8%	12,319	783	2,590,222
Median Age ³	—	—	—	38.2	38.3	37.2
Under 18 Years	23.9%	24.8%	24.0%	320,891	10,443	74,181,467
18 to 24 Years	8.7%	7.9%	9.9%	116,178	3,321	30,672,088
25 to 34 Years	13.3%	12.8%	13.3%	178,821	5,381	41,063,948
35 to 44 Years	13.5%	14.4%	13.3%	181,925	6,075	41,070,606
45 to 54 Years	15.3%	15.1%	14.6%	205,138	6,372	45,006,716
55 to 64 Years	12.5%	12.9%	11.8%	167,475	5,422	36,482,729
65 to 74 Years	7.0%	7.3%	7.0%	94,374	3,055	21,713,429
75 Years, and Over	5.8%	4.8%	6.0%	77,904	2,005	18,554,555
Race: White	80.8%	85.4%	72.4%	1,085,359	35,943	223,553,265
Race: Black or African American	13.6%	7.5%	12.6%	182,606	3,146	38,929,319
Race: American Indian and Alaska Native	0.2%	0.3%	0.9%	3,232	116	2,932,248
Race: Asian	1.5%	0.6%	4.8%	20,738	258	14,674,252
Race: Native Hawaiian and Other Pacific Islander	0.1%	0.1%	0.2%	707	45	540,013
Race: Some Other Race	1.7%	3.9%	6.2%	22,900	1,628	19,107,368
Race: Two or More Races	2.0%	2.2%	2.9%	27,164	938	9,009,073
Hispanic or Latino (of any race)	4.1%	9.1%	16.3%	54,681	3,812	50,477,594
Economic						

Labor Force Participation Rate and Size (civilian population 16 years and over) ⁴	65.2%	64.7%	63.5%	703,567	22,047	157,940,014
Armed Forces Labor Force ⁴	0.1%	0.1%	0.4%	1,261	34	1,025,497
Veterans, Age 18-64 ⁴	6.6%	7.9%	5.8%	56,811	2,144	11,371,344
Median Household Income ^{3,4}	—	—	—	\$50,581	\$57,890	\$53,482
Per Capita Income ^{3,4}	—	—	—	\$27,296	\$27,152	\$28,555
Summary¹						
	Percent			Value		
	30 mile radius of Shelby County	Shelby County, Kentucky	USA	30 mile radius of Shelby County	Shelby County, Kentucky	USA
Poverty Level (of all people) ⁴	15.0%	12.4%	15.6%	199,242	5,218	47,755,606
Households Receiving Food Stamps ⁴	13.8%	12.8%	13.0%	74,037	2,009	15,089,358
Mean Commute Time (minutes) ⁴	—	—	—	23.2	24.5	25.7
Commute via Public Transportation ⁴	1.7%	0.0%	5.1%	10,675	9	7,157,671
Union Membership ⁵	13.0%	14.7%	11.1%	—	—	—
Educational Attainment, Age 25-64						
No High School Diploma ⁴	10.2%	13.5%	12.0%	75,250	3,209	19,939,890
High School Graduate ⁴	29.8%	29.8%	26.5%	220,606	7,058	44,000,387
Some College, No Degree ⁴	23.2%	24.5%	21.9%	171,727	5,794	36,270,359
Associate's Degree ⁴	8.3%	8.2%	8.7%	61,527	1,947	14,487,486
Bachelor's Degree ⁴	17.6%	14.7%	19.7%	130,444	3,492	32,646,533
Postgraduate Degree ⁴	10.8%	9.2%	11.2%	80,264	2,185	18,533,513
Housing						
Total Housing Units ⁴	—	—	—	593,623	16,798	132,741,033
Median House Value (of owner-occupied units) ^{3,4}	—	—	—	\$149,409	\$170,300	\$175,700
Homeowner Vacancy ⁴	2.3%	1.6%	2.1%	8,378	177	1,591,421
Rental Vacancy ⁴	7.4%	5.7%	6.9%	14,307	293	3,105,361
Renter-Occupied Housing Units (% of Occupied Units) ⁴	32.8%	30.1%	35.6%	176,193	4,715	41,423,632
Occupied Housing Units with No Vehicle Available (% of Occupied Units) ⁴	7.8%	3.8%	9.1%	42,111	598	10,594,153
Social						
Enrolled in Grade 12 (% of total population) ⁴	1.3%	2.2%	1.4%	18,253	972	4,443,768
Disconnected Youth ^{4,6}	3.0%	3.3%	3.3%	2,096	76	572,277

Children in Single Parent Families (% of all children) ⁴	38.1%	32.2%	34.7%	114,516	3,307	24,388,185
Disabled, Age 18-64 ⁴	12.8%	9.9%	10.2%	108,588	2,593	19,703,061
Disabled, Age 18-64, Labor Force Participation Rate and Size ⁴	39.8%	38.7%	41.2%	43,220	1,003	8,119,295
Foreign Born ⁴	5.0%	6.8%	13.1%	67,603	2,945	41,056,885
Speak English Less Than Very Well (population 5 yrs and over) ⁴	2.9%	4.9%	8.6%	37,433	1,990	25,305,202

Source: [JobsEQ®](#)

1, Census 2010, unless noted otherwise

2, Census 2015, annual average growth rate since 2005

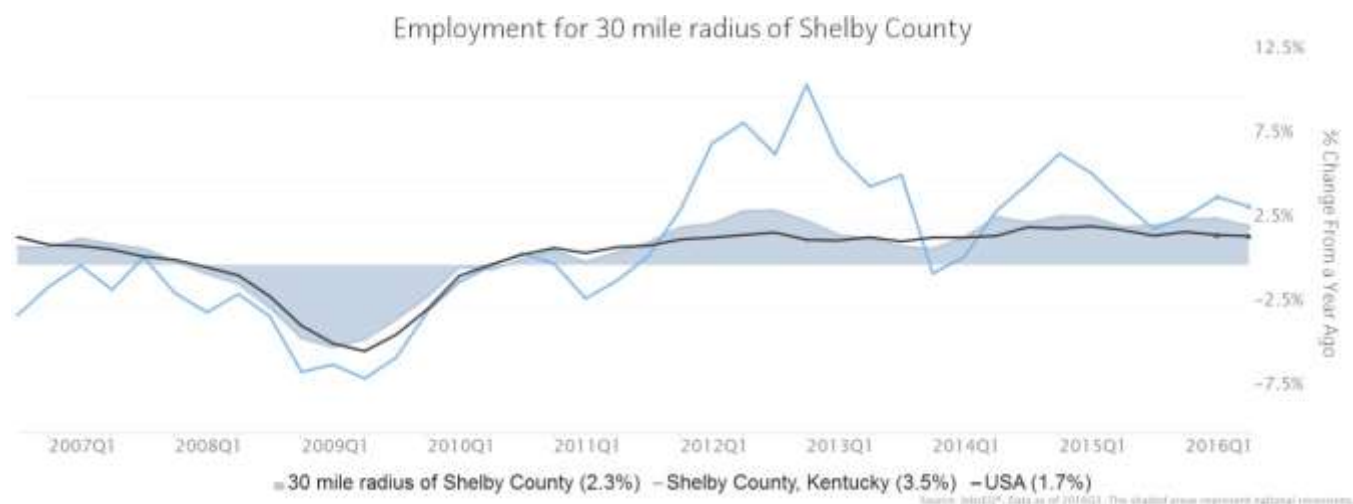
3, Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

4, ACS 2010-2014

5, 2014; Current Population Survey, unionstats.com, and Chmura; county- and zip-level data are best estimates based upon industry-, MSA-, and state-level data 6, Disconnected Youth are 16-19 year olds who are (1) not in school, (2) not high school graduates, and (3) either unemployed or not in the labor force.

Employment Trends

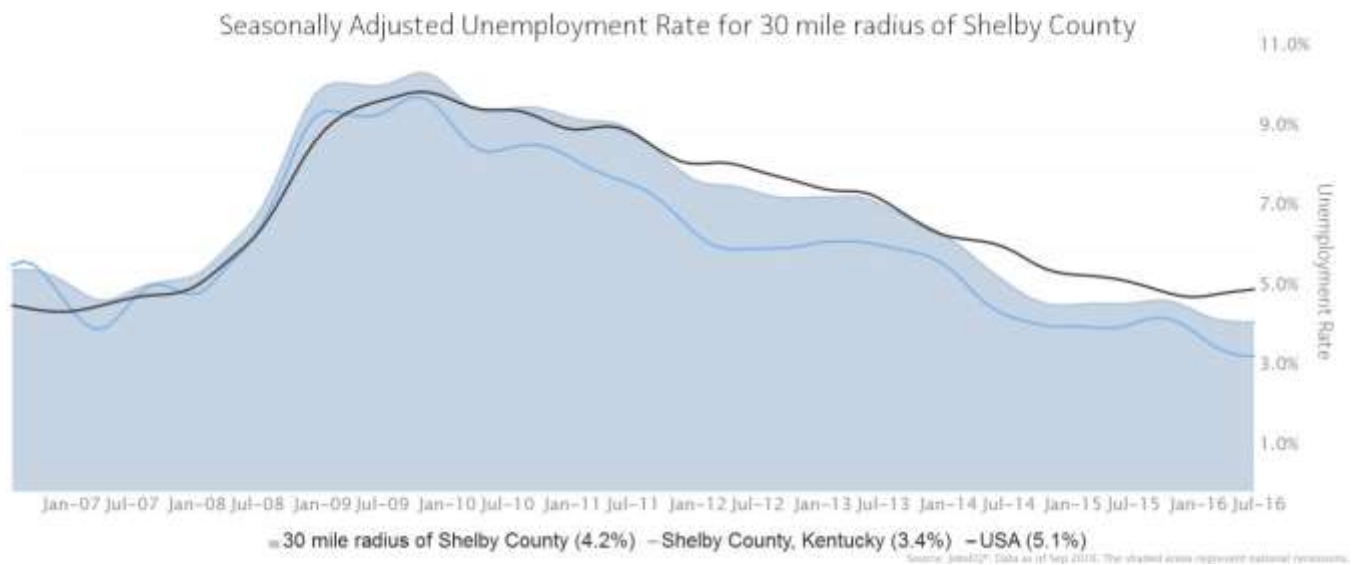
As of 2016Q3, total employment for the 30 mile radius of Shelby County was 740,477 (based on a four-quarter moving average). Over the year ending 2016Q3, employment increased 2.3% in the region.



Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2016Q1 with preliminary estimates updated to 2016Q3.

Unemployment Rate

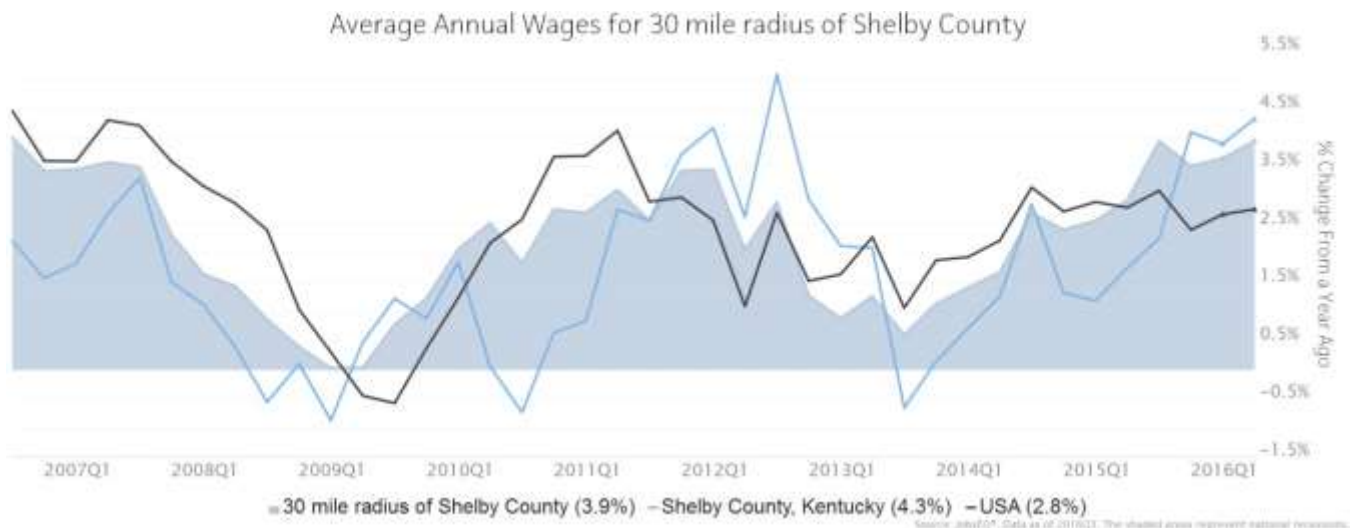
The seasonally adjusted unemployment rate for the 30 mile radius of Shelby County was 4.2% as of September 2016. The regional unemployment rate was lower than the national rate of 5.1%. One year earlier, in September 2015, the unemployment rate in the 30 mile radius of Shelby County was 4.7%.



Unemployment rate data are from the Local Area Unemployment Statistics, provided by the Bureau of Labor Statistics and updated through September 2016.

Wage Trends

The average worker in the 30 mile radius of Shelby County earned annual wages of \$47,563 as of 2016Q3. Average annual wages per worker increased 3.9% in the region during the preceding four quarters. For comparison purposes, annual average wages were \$52,724 in the nation as of 2016Q3.



Annual average wages per worker data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2016Q1 with preliminary estimates updated to 2016Q3.

Cost of Living Index

The Cost of Living Index estimates the relative price levels for consumer goods and services. When applied to wages and salaries, the result is a measure of relative purchasing power. The cost of living is 10.1% lower in 30 mile radius of Shelby County than the U.S. average.

Cost of Living Information			
	Annual Average Salary	Cost of Living Index (Base US)	US Purchasing Power
30 mile radius of Shelby County	\$48,642	89.9	\$54,126
Shelby County, Kentucky	\$39,232	92.4	\$42,442
USA	\$53,758	100.0	\$53,758

Source: [JobsEQ®](#)

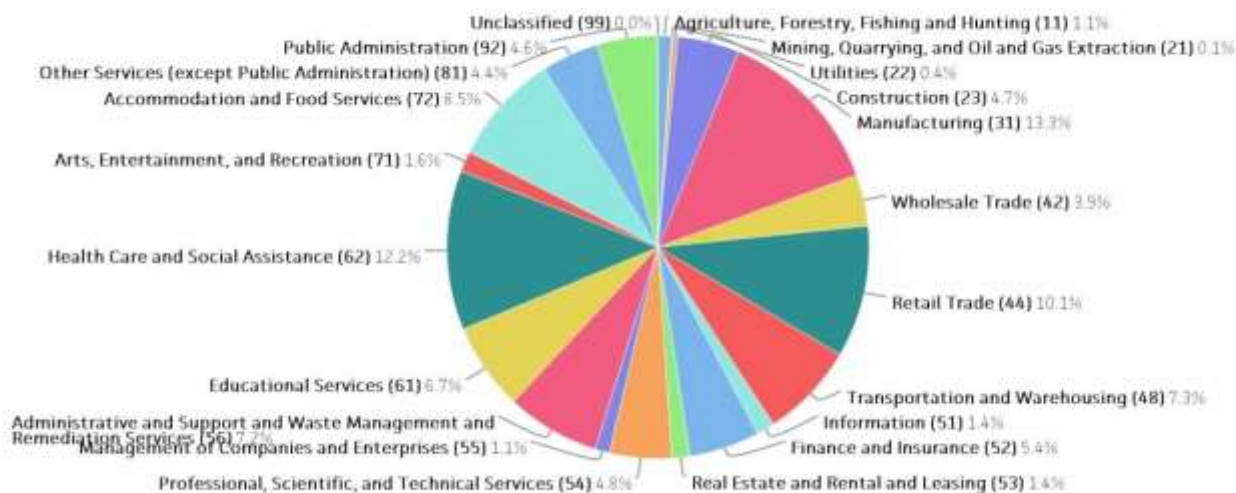
Data as of 2016Q3

The Cost of Living Index is developed by Chmura Economics & Analytics and is updated quarterly.

Industry Snapshot

The largest sector in the 30 mile radius of Shelby County is Manufacturing, employing 98,114 workers. The next largest sectors in the region are Health Care and Social Assistance (90,294 workers) and Retail Trade (74,736). High location quotients (LQs) indicate sectors in which a region has high concentrations of employment compared to the national average. The sectors with the largest LQs in the region are Transportation and Warehousing (LQ = 1.78), Manufacturing (1.60), and Finance and Insurance (1.36).

Total Workers for 30 mile radius of Shelby County by Industry



Source: [JobsEQ®](#), Data as of 2016Q3

Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2016Q1 with preliminary estimates updated to 2016Q3.

Sectors in the 30 mile radius of Shelby County with the highest average wages per worker are Management of Companies and Enterprises (\$118,875), Utilities (\$84,735), and Finance and Insurance (\$77,145). Regional sectors with the best job growth (or most moderate job losses) over the last 5 years are Manufacturing (+21,374 jobs), Administrative and Support and Waste Management and Remediation Services (+10,374), and Transportation and Warehousing (+8,588).

Over the next 10 years, employment in the 30 mile radius of Shelby County is projected to expand by 55,121 jobs. The fastest growing sector in the region is expected to be Health Care and Social Assistance with a +1.9% yearover-year rate of growth. The strongest forecast by number of jobs over this period is expected for Health Care and Social Assistance (+18,587 jobs), Retail Trade (+6,713), and Administrative and Support and Waste Management and Remediation Services (+6,254).

		Current			Historical				Forecast		
		Four Quarters Ending with 2016q3			Total Change over the Last 5 Years	Average Annual % Change in Employment 2011q3-2016q3			Over the Next 10 Years		
NAICS	Industry	Empl	Avg. Annual Wages	Location Quotient	Empl	30 mile radius of Shelby County	Shelby County, Kentucky	USA	Total Approx Repl Demand	Total Growth Demand	Avg. Annual Growth Percent
11	Agriculture, Forestry, Fishing and Hunting	7,843	\$18,879	0.72	92	0.2%	0.7%	1.3%	2,735	-105	-0.1%
21	Mining, Quarrying, and Oil and Gas Extraction	506	\$75,460	0.16	-32	-1.2%	4.8%	-1.9%	125	23	0.4%
22	Utilities	2,876	\$84,735	0.72	167	1.2%	2.9%	0.1%	718	-121	-0.4%
23	Construction	34,926	\$49,941	0.86	3,521	2.1%	4.9%	3.1%	7,316	5,457	1.5%
31	Manufacturing	98,114	\$64,419	1.60	21,374	5.0%	6.3%	1.1%	22,286	-4,087	-0.4%
42	Wholesale Trade	28,915	\$66,072	0.99	1,819	1.3%	2.0%	1.2%	6,540	1,805	0.6%
44	Retail Trade	74,736	\$27,685	0.93	7,489	2.1%	6.3%	1.5%	24,037	6,713	0.9%
48	Transportation and Warehousing	54,255	\$55,076	1.78	8,588	3.5%	15.6%	2.4%	14,367	2,241	0.4%
51	Information	10,149	\$55,086	0.68	-57	-0.1%	-3.6%	0.7%	2,354	-732	-0.7%
52	Finance and Insurance	40,047	\$77,145	1.36	5,490	3.0%	0.5%	1.0%	9,727	2,913	0.7%
53	Real Estate and Rental and Leasing	10,110	\$46,761	0.81	660	1.4%	-2.0%	1.8%	2,272	266	0.3%
54	Professional, Scientific, and Technical Services	35,269	\$66,766	0.73	2,445	1.4%	-3.1%	2.6%	7,702	4,773	1.3%
55	Management of Companies and Enterprises	8,110	\$118,875	0.76	983	2.6%	-12.9%	3.0%	1,756	424	0.5%
56	Administrative and Support and Waste Management and Remediation Services	53,206	\$30,337	1.11	10,374	4.4%	19.9%	2.9%	12,524	6,254	1.1%
61	Educational Services	49,397	\$42,704	0.81	-281	-0.1%	1.9%	0.4%	10,548	2,706	0.5%
62	Health Care and Social Assistance	90,294	\$50,387	0.87	5,754	1.3%	-1.3%	2.3%	18,871	18,587	1.9%

71	Arts, Entertainment, and Recreation	11,639	\$26,148	0.80	2,446	4.8%	-1.8%	2.3%	3,669	1,011	0.8%
72	Accommodation and Food Services	63,012	\$17,556	0.96	7,449	2.5%	4.2%	3.2%	22,684	4,443	0.7%
81	Other Services (except Public Administration)	32,582	\$28,833	0.99	884	0.6%	1.6%	0.0%	8,377	2,047	0.6%
92	Public Administration	34,365	\$46,631	0.97	-597	-0.3%	7.1%	-0.2%	8,348	495	0.1%
99	Unclassified	126	\$42,320	0.07	28	5.2%	-0.6%	15.8%	31	8	0.6%
	Total - All Industries	740,477	\$47,563	1.00	78,597	2.3%	4.4%	1.7%	185,694	55,121	0.7%

Source: [JobsEQ®](#)

Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2016Q1 with preliminary estimates updated to 2016Q3. Forecast employment growth uses national projections adapted for regional growth patterns.

Occupation Snapshot

The largest major occupation group in the 30 mile radius of Shelby County is Office and Administrative Support

Occupations, employing 114,091 workers. The next-largest occupation groups in the region are Production Occupations (72,562 workers) and Sales and Related Occupations (71,771). High location quotients (LQs) indicate occupation groups in which a region has high concentrations of employment compared to the national average. The major groups with the largest LQs in the region are Production Occupations (LQ = 1.58), Transportation and Material Moving Occupations (1.41), and Office and Administrative Support Occupations (1.02).

Occupation groups in the 30 mile radius of Shelby County with the highest average wages per worker are

Management Occupations (\$93,600), Legal Occupations (\$78,800), and Healthcare Practitioners and Technical Occupations (\$71,900). The unemployment rate in the region varied among the major groups from 1.1% among Legal Occupations to 6.1% among Transportation and Material Moving Occupations.

Over the next 10 years, the fastest growing occupation group in the 30 mile radius of Shelby County is expected to be Healthcare Support Occupations with a +2.1% year-over-year rate of growth. The strongest forecast by number of jobs over this period is expected for Healthcare Practitioners and Technical Occupations (+7,197 jobs) and Sales and Related Occupations (+5,256). Over the same period, the highest replacement demand (occupation demand due to retirements and workers moving from one occupation to another) is expected in Office and Administrative Support Occupations (25,762 jobs) and Food Preparation and Serving Related Occupations (24,541).

Occupation Snapshot in 30 mile radius of Shelby County					
	Current		Historical		Forecast
	Four Quarters Ending with 2016q3	2016q3	Total Change over the Last 5 Years	Avg Ann % Chg in Empl 2011q3-2016q3	Over the Next 10 Years

SOC	Title	Empl	Avg. Annual Wages ¹	LQ	Unempl	Unempl Rate	Empl	30 mile radius of Shelby County	Shelby County, Kentucky	USA	Current Online Job Ads ²	Total Repl Demand	Total Growth Demand	Avg. Annual Growth Percent
11-0000	Management Occupations	41,775	\$93,600	0.94	674	1.7%	3,502	1.8%	1.9%	1.5%	2,096	14,112	2,465	0.6%
13-0000	Business and Financial Operations Occupations	34,733	\$63,600	0.96	920	2.7%	3,449	2.1%	2.8%	1.6%	1,546	8,016	3,445	1.0%
15-0000	Computer and Mathematical Occupations	17,578	\$68,600	0.86	453	2.7%	2,455	3.1%	2.0%	2.6%	2,376	2,781	2,345	1.3%
17-0000	Architecture and Engineering Occupations	11,535	\$70,300	0.93	174	1.6%	2,136	4.2%	6.3%	1.2%	562	3,061	410	0.3%
19-0000	Life, Physical, and Social Science Occupations	4,338	\$56,500	0.73	59	1.4%	168	0.8%	2.2%	1.2%	365	1,405	400	0.9%
21-0000	Community and Social Service Occupations	11,673	\$41,000	0.99	267	2.4%	593	1.0%	-2.7%	1.6%	471	2,624	1,258	1.0%
23-0000	Legal Occupations	4,989	\$78,800	0.86	53	1.1%	61	0.2%	-0.6%	0.3%	83	1,010	406	0.8%
25-0000	Education, Training, and Library Occupations	35,280	\$50,300	0.84	1,543	4.2%	-117	-0.1%	1.5%	0.5%	736	7,726	2,497	0.7%
27-	Arts, Design,	10,450	\$44,500	0.81	347	3.4%	617	1.2%	1.1%	1.3%	367	3,733	419	0.4%
Occupation Snapshot in 30 mile radius of Shelby County														
		Current					Historical				Forecast			
		Four Quarters Ending with 2016q3				2016q3	Total Change over the Last 5 Years	Avg Ann % Chg in Empl 2011q3-2016q3			Over the Next 10 Years			
SOC	Title	Empl	Avg. Annual Wages ¹	LQ	Unempl	Unempl Rate	Empl	30 mile radius of Shelby County	Shelby County, Kentucky	USA	Current Online Job Ads ²	Total Repl Demand	Total Growth Demand	Avg. Annual Growth Percent
0000	Entertainment, Sports, and Media Occupations													
29-0000	Healthcare Practitioners and Technical Occupations	39,852	\$71,900	0.95	565	1.4%	2,478	1.3%	1.5%	1.6%	2,623	9,119	7,197	1.7%
31-0000	Healthcare Support Occupations	18,533	\$29,200	0.85	743	4.0%	1,022	1.1%	0.6%	2.3%	1,087	4,221	4,231	2.1%
33-0000	Protective Service Occupations	12,550	\$34,600	0.88	370	3.1%	572	0.9%	6.2%	0.9%	527	2,900	706	0.5%
35-0000	Food Preparation and Serving Related Occupations	62,338	\$20,700	0.97	3,767	6.0%	6,956	2.4%	3.4%	3.0%	3,216	24,541	4,637	0.7%

37-0000	Building and Grounds Cleaning and Maintenance Occupations	23,803	\$24,400	0.89	1,085	4.5%	1,217	1.1%	14.2%	1.1%	1,078	5,495	1,935	0.8%
39-0000	Personal Care and Service Occupations	22,721	\$24,300	0.77	850	3.8%	2,081	1.9%	-0.9%	2.2%	1,199	6,839	3,092	1.3%
41-0000	Sales and Related Occupations	71,771	\$36,800	0.93	2,934	4.1%	6,020	1.8%	6.0%	1.5%	6,905	23,498	5,256	0.7%
43-0000	Office and Administrative Support Occupations	114,091	\$34,000	1.02	4,186	3.8%	12,722	2.4%	3.4%	1.7%	4,718	25,762	4,947	0.4%
45-0000	Farming, Fishing, and Forestry Occupations	2,065	\$29,100	0.43	82	4.0%	81	0.8%	2.1%	1.8%	35	1,295	-9	0.0%
47-0000	Construction and Extraction Occupations	28,535	\$43,800	0.86	1,216	4.3%	2,925	2.2%	5.2%	2.4%	458	5,511	3,919	1.3%
49-0000	Installation, Maintenance, and Repair Occupations	29,007	\$44,200	1.02	858	3.1%	3,455	2.6%	5.7%	1.7%	1,865	7,222	2,401	0.8%
51-0000	Production Occupations	72,562	\$37,300	1.58	3,733	5.4%	16,045	5.1%	6.6%	1.5%	1,641	18,631	-1,249	-0.2%
53-0000	Transportation and Material Moving Occupations	70,301	\$34,600	1.41	4,082	6.1%	10,160	3.2%	6.4%	2.2%	2,731	19,039	4,380	0.6%
00-0000	Total - All Occupations	740,477	\$42,700	1.00	n/a	n/a	78,597	2.3%	4.4%	1.7%	36,685	198,540	55,087	0.7%

Source: [JobsEQ®](#)

Data as of 2016Q3 unless noted otherwise

Note: Figures may not sum due to rounding.

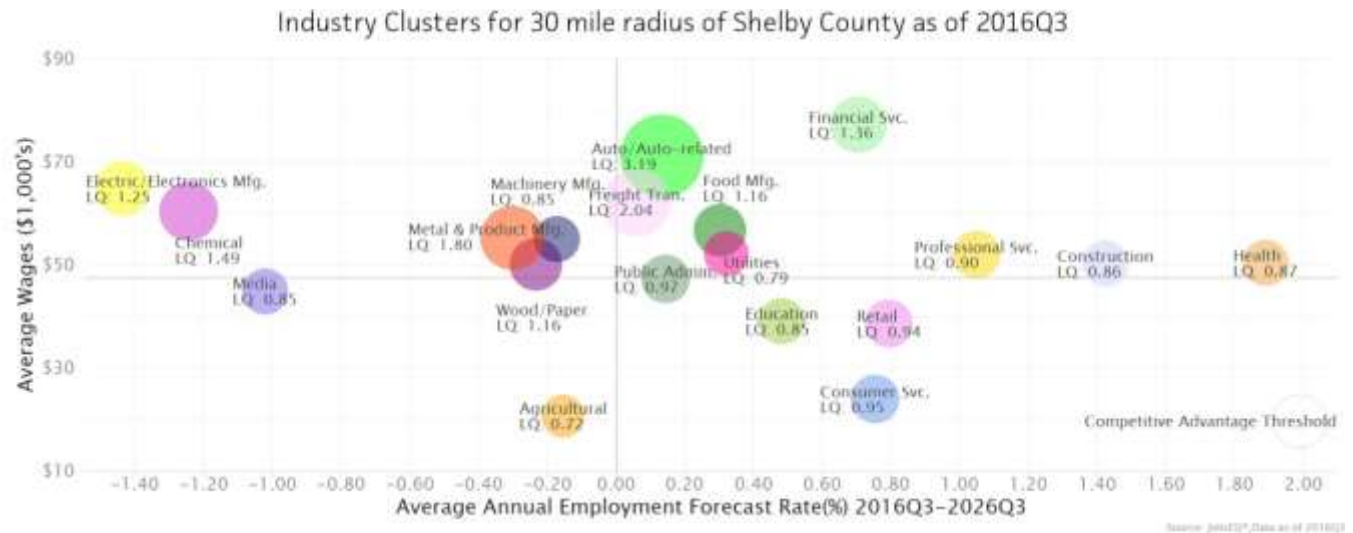
1. Occupation wages are as of 2015 and should be taken as the average for all Covered Employment

2. Data represent found online ads active within the last thirty days in any zip code intersecting or within the selected region; data represents a sampling rather than the complete universe of postings; the listing search uses keywords that are similar to but not the equivalent of the SOC occupation definitions.

Occupation employment data are estimated via industry employment data and the estimated industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2016Q1, imputed where necessary with preliminary estimates updated to 2016Q3. Wages by occupation are as of 2015 provided by the BLS and imputed where necessary. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Industry Clusters

A cluster is a geographic concentration of interrelated industries or occupations. The industry cluster in the 30 mile radius of Shelby County with the highest relative concentration is Auto/Auto-related with a location quotient of 3.19. This cluster employs 39,478 workers in the region with an average wage of \$71,169. Employment in the Auto/Autorelated cluster is projected to expand in the region about 0.1% per year over the next ten years.



Location quotient and average wage data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics, imputed where necessary, and updated through 2016Q1 with preliminary estimates updated to 2016Q3. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Education Levels

Expected growth rates for occupations vary by the education and training required. While all employment in the 30 mile radius of Shelby County is projected to grow 0.7% over the next ten years, occupations typically requiring a postgraduate degree are expected to grow 1.4% per year, those requiring a bachelor's degree are forecast to grow 0.9% per year, and occupations typically needing a 2-year degree or certificate are expected to grow 1.2% per year.



Employment by occupation data are estimates as of 2016Q3. Education levels of occupations are based on BLS assignments. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Region Definition

30 mile radius of Shelby County is defined as the following counties: Clark County, Indiana; Jefferson County,

Indiana; Anderson County, Kentucky; Bullitt County, Kentucky; Carroll County, Kentucky; Franklin County, Kentucky;
Henry County, Kentucky; Jefferson County, Kentucky; Mercer County, Kentucky; Nelson County, Kentucky; Oldham
County, Kentucky; Owen County, Kentucky; Scott County, Kentucky; Shelby County, Kentucky;
Spencer County,
Kentucky; Trimble County, Kentucky; Washington County, Kentucky; Woodford County, Kentucky

FAQ

What is a location quotient?

A location quotient (LQ) is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is replacement demand?

Replacement demand is the number of jobs required due to replacements—retirements and turnover resulting from workers moving from one occupation into another. Note that replacement demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. The replacement demand shown in this report may also be understated; thus, it can be taken to be a minimum measure of the number of workers who will need to be trained for the occupation due to replacements. The total projected demand for an occupation is the sum of the replacement demand and the growth demand (which is the increase or decrease of jobs in an occupation expected due to expansion or contraction of the overall number of jobs in that occupation).

What is a cluster?

A cluster is a geographic concentration of interrelated industries or occupations. If a regional cluster has a location quotient of 1.25 or greater, the region is considered to possess a *competitive advantage* in that cluster.

What is the difference between industry wages and occupation wages?

Industry wages and occupation wages are estimated via separate data sets, often the time periods being reported do not align, and wages are defined slightly differently in the two systems (for example, certain bonuses are included in the industry wages but not the occupation wages). It is therefore common that estimates of the average industry wages and average occupation wages in a region do not match exactly.

What is NAICS?

The North American Industry Classification System (NAICS) is used to classify business establishments according to the type of economic activity. The NAICS Code comprises six levels, from the “all industry” level to the 6-digit level. The first two digits define the top level category, known as the “sector,” which is the level examined in this report.

What is SOC?

The Standard Occupational Classification system (SOC) is used to classify workers into occupational categories. All workers are classified into one of over 820 occupations according to their occupational definition. To facilitate classification, occupations are combined to form 23 major groups, 96 minor groups, and 449 occupation groups. Each occupation group includes detailed occupations requiring similar job duties, skills, education, or experience.

About This Report

This report and all data herein were produced by JobsEQ®, a product of Chmura Economics & Analytics. The information contained herein was obtained from sources we believe to be reliable. However, we cannot guarantee its accuracy and completeness.

Waiver of Confidentiality & Authorization to Publish Kentucky Work Ready Skills Initiative Application

15

By signing below, each partnership member organization acknowledges that it has read the Waiver of Confidentiality and Authorization to Publish Kentucky Work Ready Skills Initiative Application and, furthermore, knowingly waives its right to confidentiality as to any and all content contained in this WRSI Application, the responses, and attachments hereto. Each partnership member organization also expressly authorizes the Kentucky Education and Workforce Development Cabinet to publish this WRSI Application in its entirety, including responses and attachments. This form must be signed by an authorized representative of the partnership member organization or by the Lead Applicant with permission of the partnership member organization.

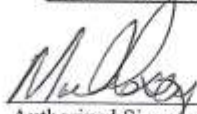
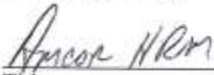
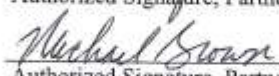

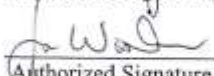
<u>Michael Heslwe</u> Authorized Signature, Partner	<u>PRESIDENT, SUPERBITE SHELBY CTY. TRAINING CONSORTIUM</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Superintendent Eminence Schools</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Asst. Supr. ETS</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Principal SCATC</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Exec. Director Shelby Cty. Chamber of Commerce</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>PRESIDENT PGASOS FND. CHAIR SHELBY CO. ASSO. FND.</u> Title	<u>11/22/16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Pres & CEO Shelby Co. Chd. Fnd.</u> Title	<u>11-22-16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Executive Director Shelby County Industrial & Development Foundation</u> Title	<u>11-22-16</u> Date
<u>[Signature]</u> Authorized Signature, Partner	<u>Workforce Development Council</u> Title	<u>11-22-16</u> Date
_____ Authorized Signature, Partner	_____ Title	_____ Date
_____ Authorized Signature, Partner	_____ Title	_____ Date

Waiver of Confidentiality & Authorization to Publish Kentucky Work Ready Skills Initiative Application

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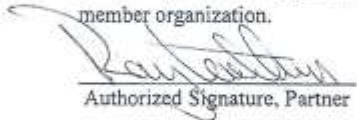
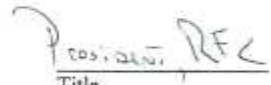
	<u>Staff G. Taylor</u>	<u>11/28/2016</u>
Authorized Signature, Partner	Title	Date
	<u>Mayor, City of Shelbyville</u>	<u>11-28-2016</u>
Authorized Signature, Partner	Title	Date
	<u>Mayor of Simpsonville</u>	<u>11/29/16</u>
Authorized Signature, Partner	Title	Date
	<u>Executive VP/owner</u>	<u>11/29/16</u>
Authorized Signature, Partner	Title	Date
	<u>HR Manager</u>	<u>11/29/16</u>
Authorized Signature, Partner	Title	Date
	<u>General Manager</u>	<u>11.30.16</u>
Authorized Signature, Partner	Title	Date
	<u>VICE PRESIDENT</u>	<u>11/30/16</u>
Authorized Signature, Partner	Title	Date
	<u>Training Manager</u>	<u>11/30/16</u>
Authorized Signature, Partner	Title	Date
	<u>President, Stebbins Inc</u>	<u>11/30/16</u>
Authorized Signature, Partner	Title	Date
	<u>Senator</u>	<u>11-30-16</u>
Authorized Signature, Partner	Title	Date
	<u>Human Resources Mgr</u>	<u>11-30-16</u>
Authorized Signature, Partner	Title	Date

Waiver of Confidentiality & Authorization to Publish Kentucky Work Ready Skills Initiative Application

 Authorized Signature, Partner	 Title	<u>12-1-16</u> Date
 Authorized Signature, Partner	<u>BEKAERT COAT PLANT MGR</u> Title	<u>12/1/16</u> Date
 Authorized Signature, Partner	<u>HR Director</u> Title	<u>12/1/16</u> Date
 Authorized Signature, Partner	<u>VP of Operations</u> Title	<u>12/1/16</u> Date
_____ Authorized Signature, Partner	_____ Title	_____ Date
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INITIATIVE APPLICATION

By signing below, each partnership member organization acknowledges that it has read the Waiver of Confidentiality and Authorization to Publish Kentucky Work Ready Skills Initiative Application and, furthermore, knowingly waives its right to confidentiality as to any and all content contained in this WRSI Application, the responses, and attachments hereto. Each partnership member organization also expressly authorizes the Kentucky Education and Workforce Development Cabinet to publish this WRSI Application in its entirety, including responses and attachments. This form must be signed by an authorized representative of the partnership member organization or by the Lead Applicant with permission of the partnership member organization.

 Authorized Signature, Partner	 Title	<u>12/2/16</u> Date
_____ Authorized Signature, Partner	_____ Title	_____ Date
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Initiative Application

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Jonathan W. Kitchen

Jonathan W Kitchen
Authorized Signature, Partner

Plant Manager
Title

11/30/16
Date

Authorized Signature, Partner

Title

Date

Authorized Signature, Partner

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Authorized Signature, Partner

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Date

F.B. PURNELL SAUSAGE CO., INC.

ROBERT E. PURNELL
ALLEN D. PURNELL
FRED T. PURNELL



F.B. PURNELL, SR., Founder (1900-1974)
FRED B. PURNELL, JR. (1933-2000)

November 30, 2016

F. B. Purnell Sausage Co., Inc approves our support information for Work Ready Skills Initiative being open to the public.

Thank You,

A handwritten signature in black ink, appearing to read "Ida Guier".

Ida Guier
Human Resource Director

Box 366, Simpsonville, Kentucky 40067 • (502) 722-5626